

SONY®

DIGITAL VIDEOCASSETTE RECORDER

DNW-A28
DNW-A28P

BETACAM SX

MAINTENANCE MANUAL

Volume 1 1st Edition

Serial No. 10001 and Higher: DNW-A28

Serial No. 40001 and Higher: DNW-A28P

⚠ 警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

Attention-when the product is installed in Rack:

1. Prevention against overloading of branch circuit

When this product is installed in a rack and is supplied power from an outlet on the rack, please make sure that the rack does not overload the supply circuit.

2. Providing protective earth

When this product is installed in a rack and is supplied power from an outlet on the rack, please confirm that the outlet is provided with a suitable protective earth connection.

3. Internal air ambient temperature of the rack

When this product is installed in a rack, please make sure that the internal air ambient temperature of the rack is within the specified limit of this product.

4. Prevention against achieving hazardous condition due to uneven mechanical loading

When this product is installed in a rack, please make sure that the rack does not achieve hazardous condition due to uneven mechanical loading.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ.
Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.

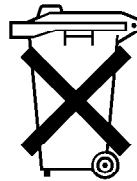
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

Voor de klanten in Nederland

Dit apparaat bevat een (CF)_n-Li batterij voor memory back up.

Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.

Gooi de batterij niet weg, maar lever hem in als KCA.



Bij dit produkt zijn batterijen geleverd.
Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

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Appendix A Setting Check Sheet

Manual Structure

Purpose of this manual

This manual is the Maintenance manual volume 1 of digital videocassette recorder DNW-A28/A28P.

This maintenance manual (Volume 1 and 2) is intended for use by trained system and service engineers, and provides the information of maintenance and detailed service (parts replacement, guideline for adjustment, schematic diagrams, board layouts, detailed parts list).

This manual (volume 1) explains about maintenance information, parts replacement, and guideline for adjustment.

Related manuals

Besides this “Maintenance manual”, the following manuals are available for digital videocassette recorder DNW-A28/A28P.

- **Operation Manual (Supplied with the DNW-A28/A28P.)**

This manual is necessary for application and operation (and installation) of the DNW-A28/A28P.

- **Installation Manual (Supplied with the DNW-A28/A28P.)**

This manual describes the information on installing the DNW-A28/28P.

- **Protocol Manual of Remote (9-pin) Connector (available on request)**

This manual explains the protocol for controlling the VTR via the RS-422A (9-pin serial remote) . If this manual is required, please contact your local Sony Sales Office/Service Center.

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Broadcasting & Professional Systems Company equipment.

Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual for the corresponding unit. The maintenance manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-XX

Contents

Maintenance manual volume 1 (9-967-866-)

This maintenance manual (volume 1 and volume 2) is organized by following sections.

Section 1 Service Overview

Explains the information that is required to service (removal of cabinet and cassette compartment, the functions of printed circuit board, the locations of main part, fixture and measuring equipment information, board extension, NV-RAM/EE-PROM, etc.).

Section 2 Error Messages

Explains the error messages.

Section 3 Maintenance Mode

Explains each menu of the maintenance mode.

Section 4 Periodic Maintenance and Inspection

Explains the recommended periodic maintenance, the cleaning procedure and the video head tip protrusion check procedure.

Section 5 Periodic Maintenance Parts Replacement

Explains the replacement of periodic maintenance parts and overview for replacement of mechanical parts.

Section 6 Main Parts Replacement

Explains the replacement of mechanical parts (except periodic maintenance parts) and circuit boards.

Section 7 Tape Path Alignment

Explains the tape path alignment after replacement of parts that are described in Section 5 and Section 6.

Section 8 Electrical Alignment after Drum Replacement

Explains the electrical alignment associated with replacement of drum.

Section 9 Electrical Alignment

Explains the electrical alignment for the maintenance of this unit.

**Maintenance manual
volume 2
(9-967-867-)**

Section 1 Semiconductor Pin Assignments

This section contains information on semiconductors used for unit.

It includes a complete list of the semiconductors and their ID Nos. for retrieving information on “Semiconductor Pin Assignments” CD-ROM, which is available separately.

Please refer to this section together with the “Semiconductor Pin Assignments” CD-ROM.

Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 2 Spare Parts

Describes the exploded views, the mechanical parts list and the electrical parts list.

Section 3 Circuit Description and Block Diagrams

Describes the circuit description and the block diagrams of overall and each board.

Section 4 Schematic Diagrams

Describes the frame wiring and the schematic diagrams for the unit.

Section 5 Board Layouts

Describes the board layouts for the unit.

Trademark

Trademark used in this manual is as follows:

- Dolby is registered trademark of Dolby Laboratories Licensing Corporation.

Section 1

Service Overview

1-1. Notes on Maintenance Service

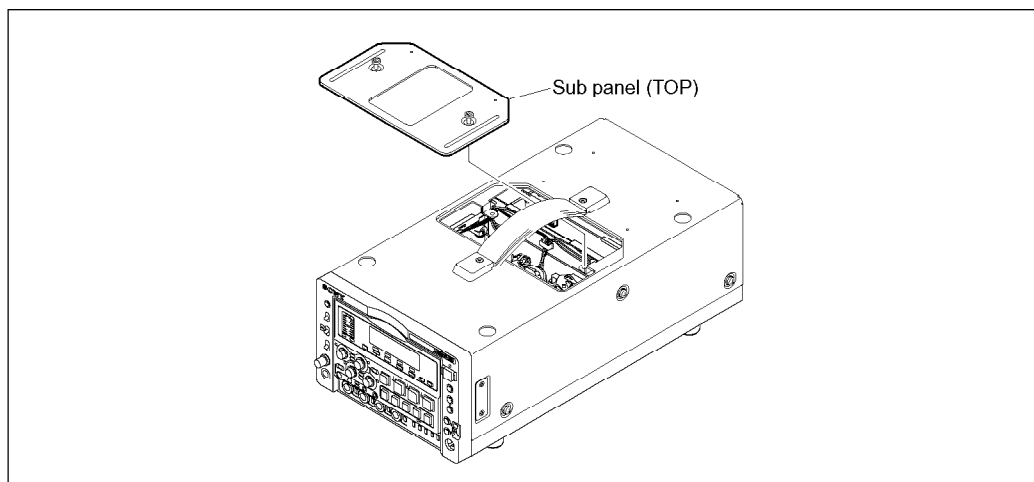
1. DNW-A28 is designed as a compact size, therefore it is suitable for mount on the Outside Broadcasting van. To prevent the loosening the screw depends on the vibration of driving the Outside Broadcasting van, the screw should be tightened as the following tightening torque using the torque screwdriver.

It is recommended to use the specified torque screwdriver prepared as the tool for M1.4 and M2 screws.

- For M1.4 screw: $9 \times 10^{-2} \text{ N}\cdot\text{m}$ {0.9 kgf·cm}
- For M2 screw: $20 \times 10^{-2} \text{ N}\cdot\text{m}$ {2.0 kgf·cm}
- For M2.6 screw: $5 \times 10^{-2} \text{ N}\cdot\text{m}$ {5.0 kgf·cm}
- For M3 screw: $8 \times 10^{-2} \text{ N}\cdot\text{m}$ {8.0 kgf·cm}
- For M4 screw: $14 \times 10^{-2} \text{ N}\cdot\text{m}$ {14.0 kgf·cm}

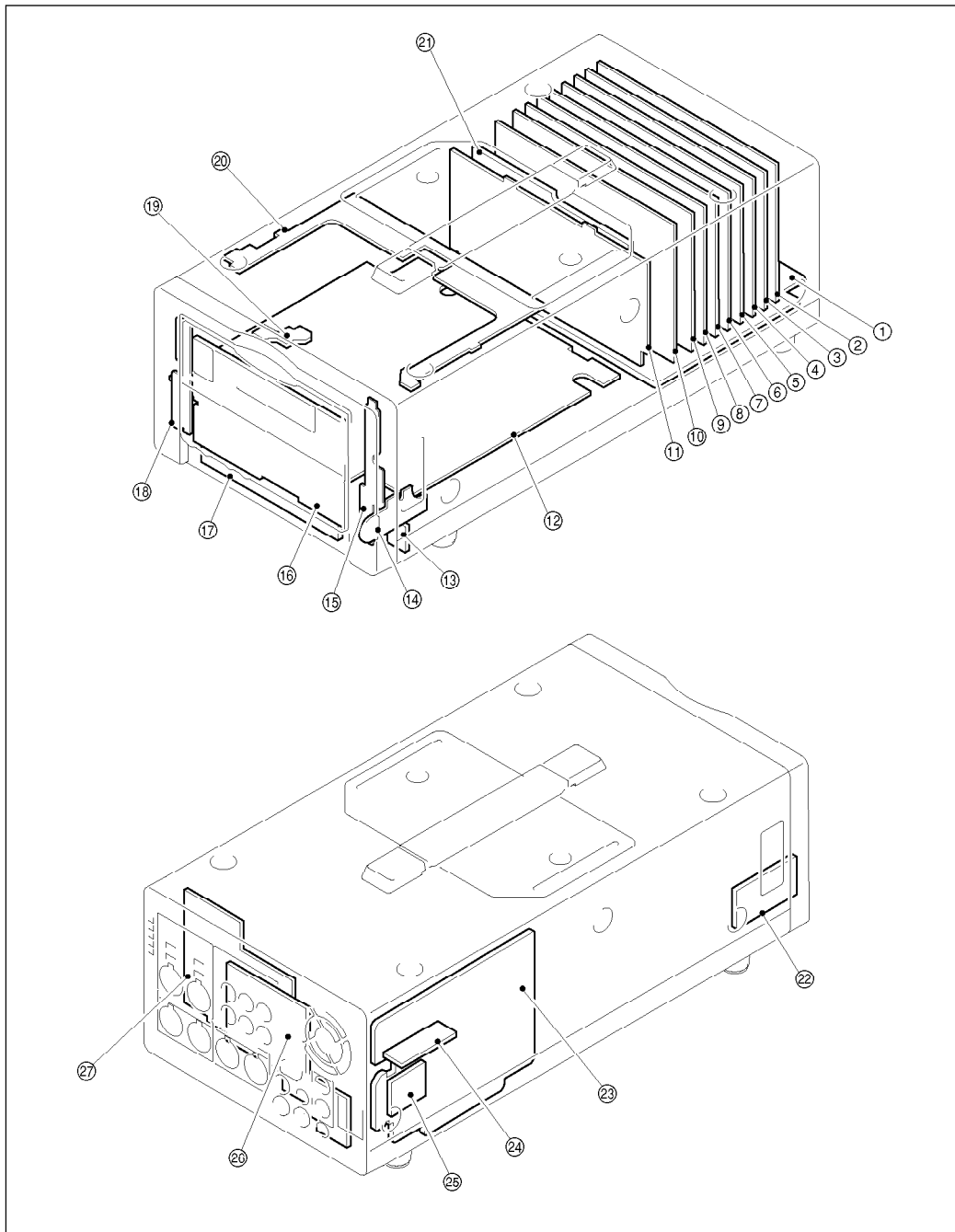
Notes

- Torque screwdriver bit (for M1.4): J-6325-110-A
 - Torque screwdriver bit (for M2): J-6325-380-A
 - Hexagon bit (for torque driver): J-6326-120-A
 - Torque screwdriver (3 kgf·cm): J-6325-400-A
2. The display of the front panel is also designed as a compact size.
When the setup menu and maintenance mode are performed during the service operation, it is recommended to connect the video monitor to the VIDEO OUTPUT 2 (SUPER) connector on the connector panel. The item and data of the setup menu and maintenance mode are displayed on the video monitor in detail to help your service operation.
 3. The design of this unit is improved in serviceability, then the following service operation can be performed easily by removing the sub panel (TOP) on the top of the unit using a coin or similar object.
 - Cleaning of upper drum
 - Cleaning of some tape guide
 - Ejecting of cassette tape using the manual eject gear



1-2. Location of Main Parts and Circuit Function

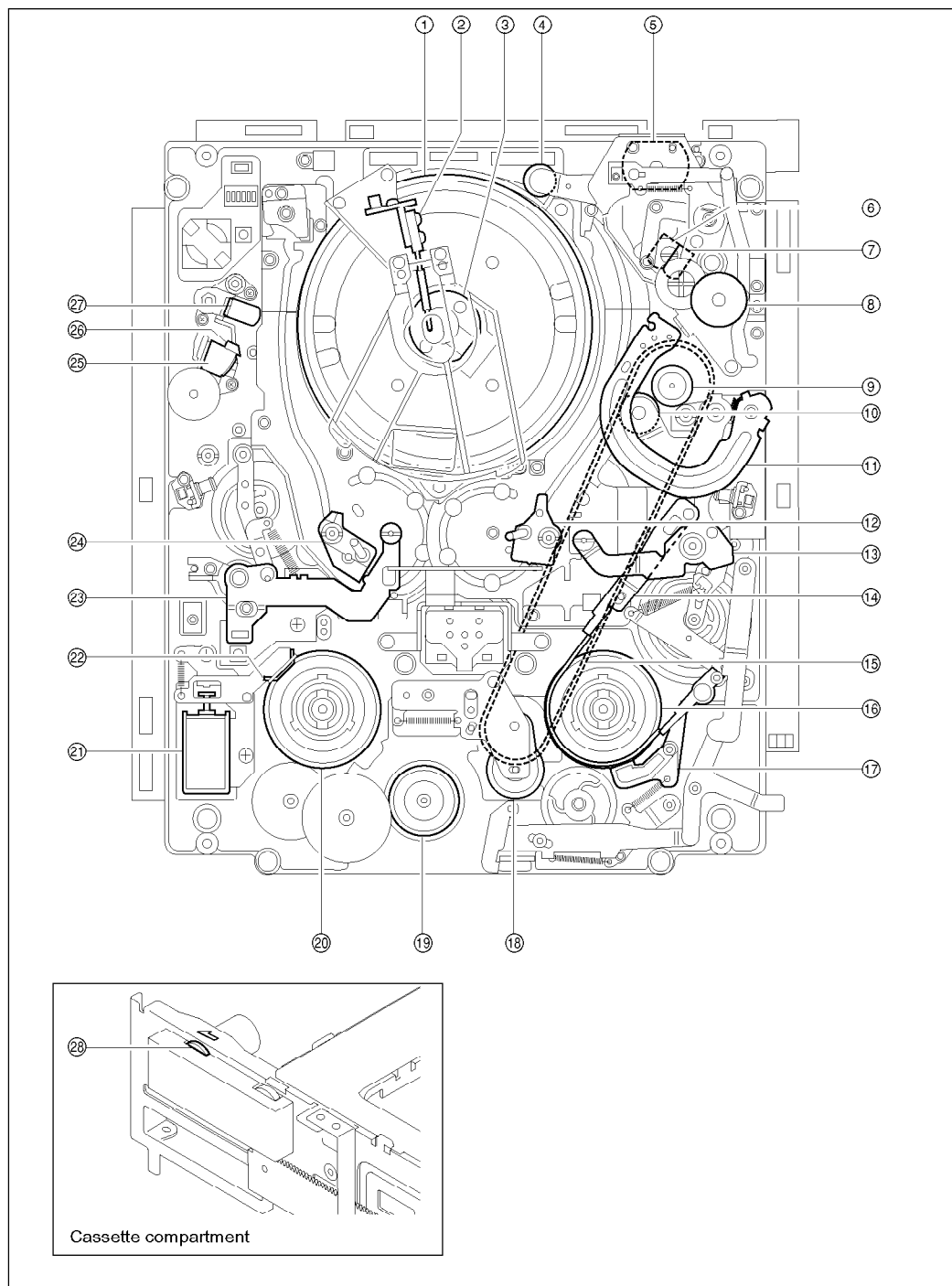
1-2-1. Function and Location of Printed Circuit Boards



System	Board	Circuit Function	Fig.
Digital processing	DPR-87	Digital data processor Video BRR* encoder/decoder, ECC** encoder/decoder(Outer error correction)	⑧
	SDI-23	4:2:2 component serial digital interface	⑤
Video processing	VPR-34	Video signal processor Video process D-A, Composite encoder	⑦
	DEC-97	Analog composite decoder	④
Analog Betacam video PB processing	DM-114 (for DNW-A28) DM-114P (for DNW-A28P)	RF demodulator for analog Betacam PB, TBC***	⑭
Audio processing	APR-27A	Audio signal processor	③
	AU-249	Audio A-D (Analog CH1/2 input), Audio D-A (Analog CH1/2 output) Audio D-A (Monitor output)	②
	PA-218	Head amplifier for analog Betacam PB	⑳
RF processing	EQ-72	RF equalizer REC current control, PB EQ, Analog Betacam PB buffer Inner error correction	⑪
Timing generator	TG-191	Reference timing signal and clock generator	⑥
System control	SY-259B	System control (SYS1)	⑩
	SY-260	System control (SYS2)	⑨
Motor driver/sensor	SV-194A	Servo control, Motor driver, Sensors	⑫
	SR-65	S tension sensor	⑬
Front panel	SW-21	Lower control panel	⑰
	SW-22	Control panel (EJECT, CTL/TC/U-BIT, HOLD, RESET, SET, MENU)	⑮
	SW-23	Control panel (WARNING Indi., REC INHI, METER, MONITOR)	⑱
	CT-209	Jog dial	⑭
	VFD assembly	Display and function control	⑲
Connector panel	CP-344	Connector board (AUDIO/MONITOR system), select switch and audio amplifier (AUDIO INPUT/OUTPUT, MONITOR OUTPUT)	㉓
	CP-354	Connector board (VIDEO/REMOTE/SDI/DC/TC system), select switch and amplifier (VIDEO INPUT/OUTPUT, REMOTE, SDI IN/OUT, DC OUT, TC IN/OUT)	㉔
	DC-97	DC IN terminal board	㉕
Power	RE-150	Switching regulator	㉖
	RE-158	Breaker	㉗
Others	MB-757A	Motherboard	①
	HP-100	Headphones jack	㉚
	PSW-72	Power switch	⑬
	SE-529	Cassette compartment	㉙

*BRR: Bit Rate Reduction **ECC: Error Correction Coding ***TBC: Time Base Corrector

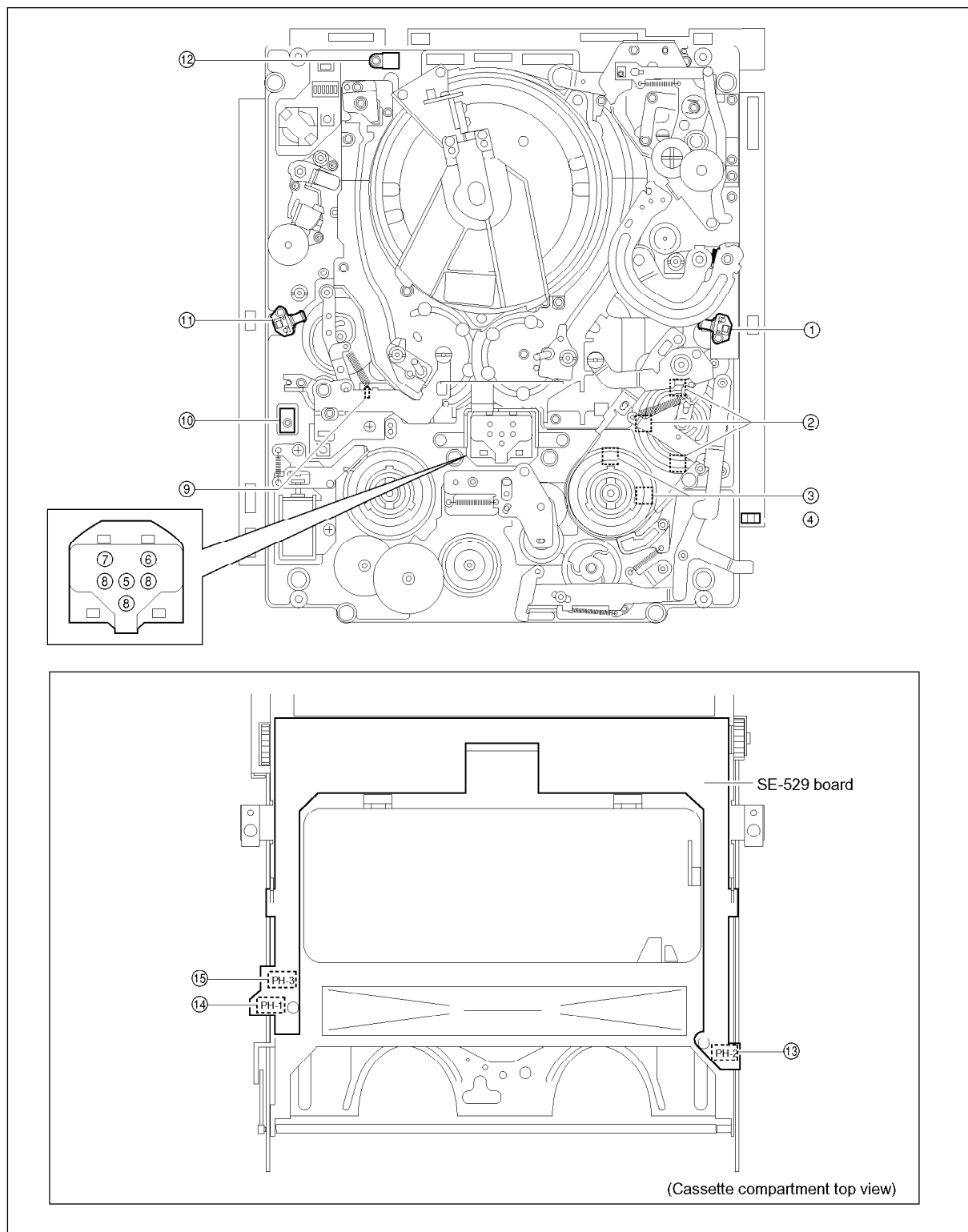
1-2-2. Location of Main Mechanical Parts



Index

- ① Drum assembly
- ② Brush
- ③ Slip ring
- ④ Video head cleaner
- ⑤ Threading motor
- ⑥ TC erase head
- ⑦ AT head
- ⑧ Manual eject knob
- ⑨ Capstan motor
- ⑩ Pinch roller
- ⑪ T drawer arm
- ⑫ T slider
- ⑬ T tension regulator arm
- ⑭ Tension regulator band
- ⑮ Timing belt (reel)
- ⑯ T reel table
- ⑰ T soft brake
- ⑱ Gear
- ⑲ S reel motor
- ⑳ S reel table
- ㉑ Brake solenoid
- ㉒ S main brake
- ㉓ S tension regulator arm
- ㉔ S slider
- ㉕ Full erase head
- ㉖ Tape cleaner
- ㉗ CTL head
- ㉘ Manual eject gear (cassette compartment up/down)

1-2-3. Function and Location of Sensors

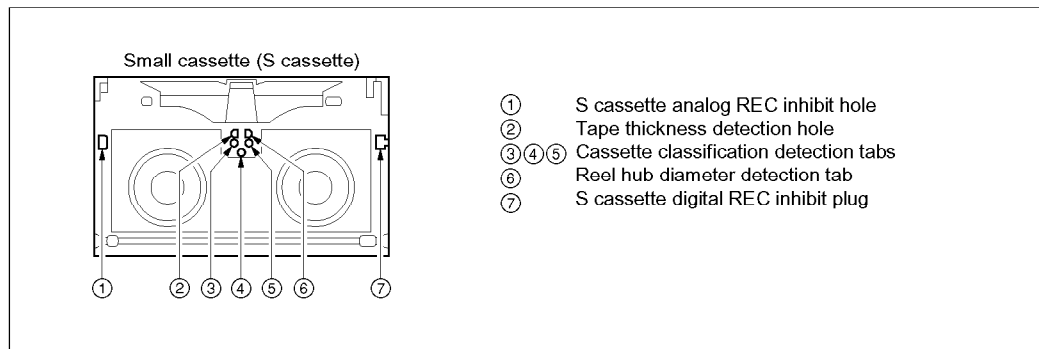


- | | | |
|---|----------------------------------|---|
| ① | Tape top sensor | Detects the end of the tape running in the reverse direction. |
| ② | Function cam sensor | Detects the rotation position of the cam. |
| ③ | T reel table FG sensor | Detects the rotation speed of the T reel table. In addition, the sensor output FG is sent to the servo circuit to calculate the diameter of wound tape and to discriminate the abnormality of the T reel table rotation. |
| ④ | Cassette compartment lock sensor | Detects whether the cassette compartment is locked or not. |
| ⑤ | Oxide/Metal sensor | Detects the metal tape detection tab of a cassette to discriminate whether the tape stored in a Betacam/Betacam SP cassette is an oxide or metal particle tape. |
| ⑥ | Tape thickness sensor | Detects the tape thickness detection tab of a cassette to discriminate the thickness of the tape stored in a cassette. |
| ⑦ | Reel hub diameter sensor | There are two kinds of hubs (thin or thick in diameter) according to the length of a tape stored in a cassette. This sensor detects the reel hub diameter detection tab of a cassette to discriminate which hub is used in a cassette. The output of the sensor is sent to the servo circuit of the S reel motor to control the reel rotation speed and torque during tape running. |
| ⑧ | Cassette classification sensors | Detect the three cassette classification detection tabs of a cassette to discriminate whether an inserted cassette can be used for the unit. |
| ⑨ | S tension regulator arm sensor | Detects the position of the S tension regulator arm. The output of the sensor is sent to the S reel motor servo circuit to control the reel torque to keep a constant S tape tension during recording and playback. |
| ⑩ | REC inhibit sensor | Detects the state of the REC inhibit plug of a cassette. |
| ⑪ | Tape end sensor | Detects the end of the tape running in the forward direction. |
| ⑫ | Condensation sensor | Detects whether the dew condensation occurs in the unit or not. |
| ⑬ | Cassette-in sensor | Detects the cassette is inserted. |
| ⑭ | Holder position sensor | Detects the position of the cassette compartment. |
| ⑮ | Cassette position sensor | Detects whether the cassette is inserted properly into the cassette compartment or not. |

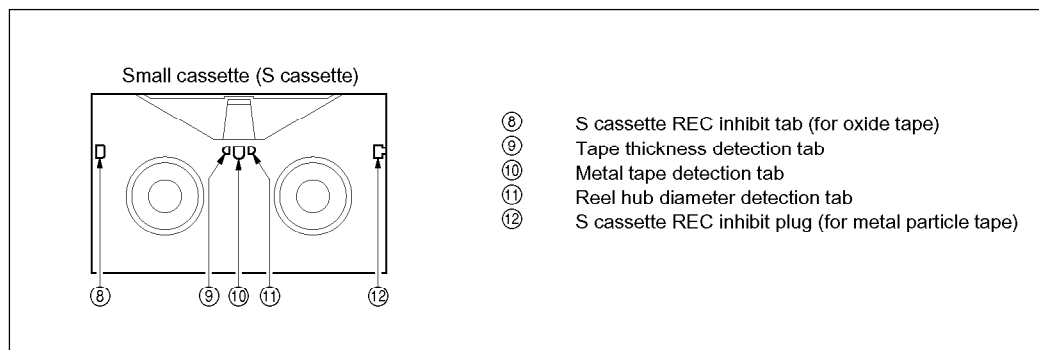
1-3. System of Cassette

As shown in the figure below, plugs and tabs are provided at the back side of the cassette tape.

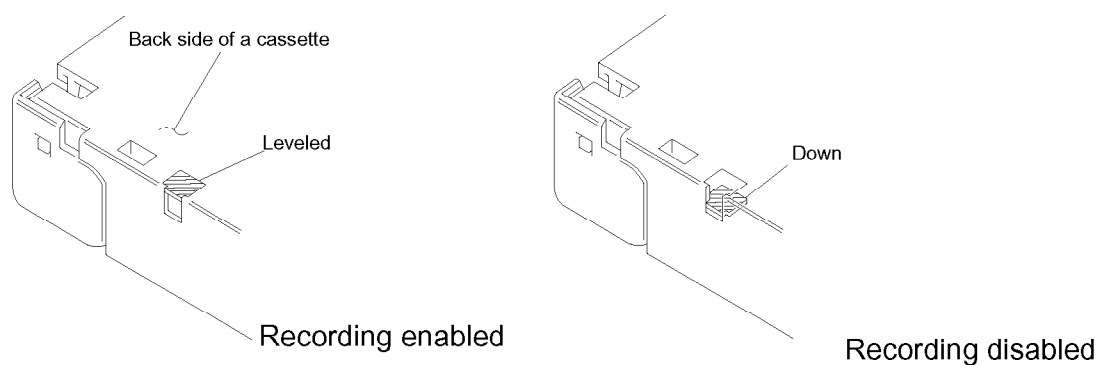
Cassette for Betacam SX



Cassette for Betacam or Betacam SP



REC Inhibit Plugs



Detection Tabs

Cassette for Betacam SX

No.	Use	With tab (closed)	Without tab (opened)
②	Tape thickness detection	Thickness: 14.5 μm	Thickness: other than 14.5 μm
⑥	Reel hub diameter detection	Small hub	
③④⑤	Cassette classification detection	③ is without tab (opened) for Betacam SX cassette. Represents the cassette classification by combination of three tabs. (See below)	

Cassette for Betacam or Betacam SP

No.	Use	With tab (closed)	Without tab (opened)
②	Tape thickness detection	Thickness: 20 μm	Thickness: 15 μm
③	Metal tape detection	Oxide tape	* Metal particle tape
④	Reel hub diameter detection	Small hub	Large hub

* : For the metal particle tape, digital recording can be performed using a Betacam SX format.

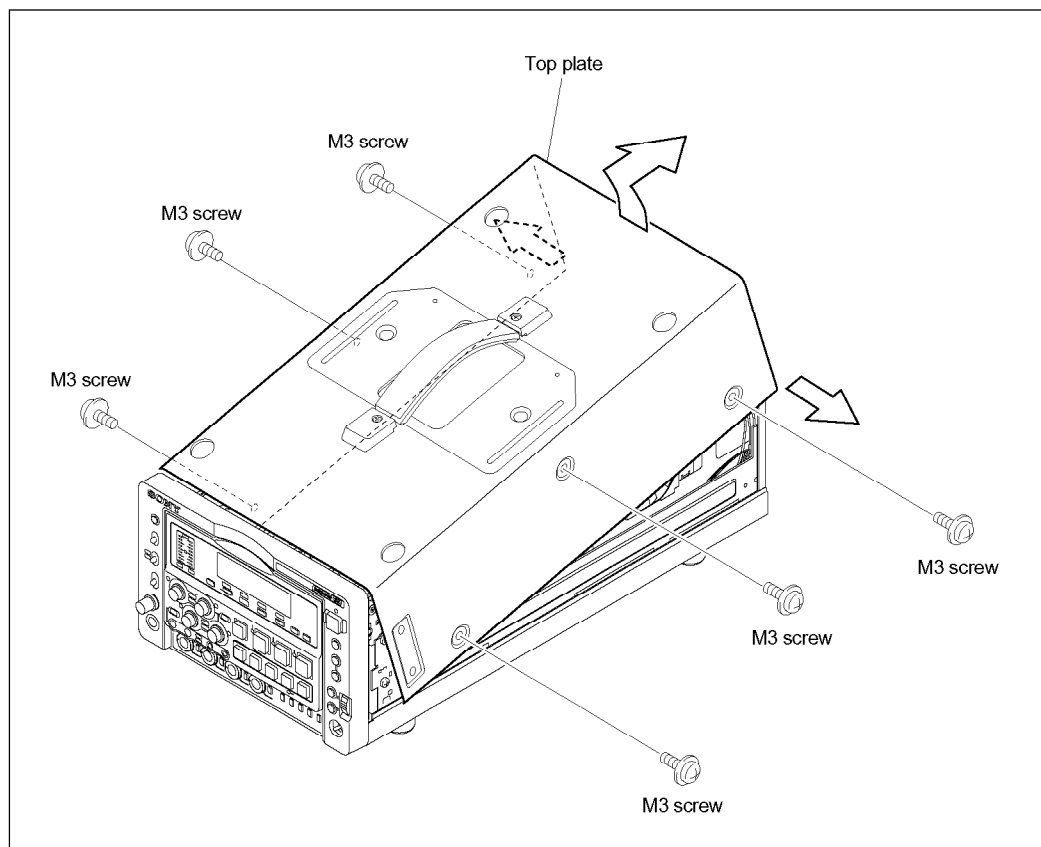
Cassette classification detection tabs ○ : with tab (closed), ● : without tab (opened)

State of tabs ③④⑤	Cassette class	Remarks
○○○	Betacam or Betacam SP	——
●○○	Betacam SX	——
○○●	Digital Betacam	Unusable
●●, ●○, ○●, ●●, ●●	Except the above class	Unusable

1-4. Removing/Reinstalling the Cabinet

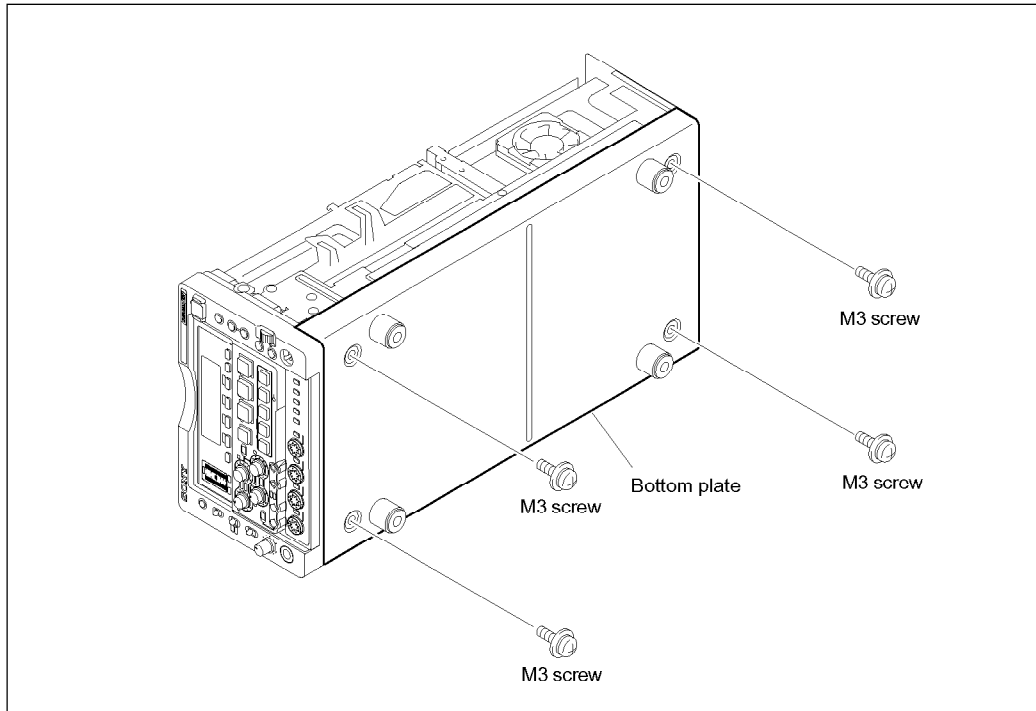
1-4-1. Top Plate

1. Remove the six screws (three each at right and left sides) securing the top plate.
2. Slightly lift up the top plate at the connector panel side, and move it in the arrow direction to remove while slightly widening the bottom of it as shown in the figure.
3. Reattach the top plate in the reverse order of steps 1 and 2.



1-4-2. Bottom Plate

1. Remove the top plate. (Refer to Section 1-4-1.)
2. Remove the four screws securing the bottom plate.
3. Remove the bottom plate.
4. Reattach the bottom plate in the reverse order of steps 1 to 3.



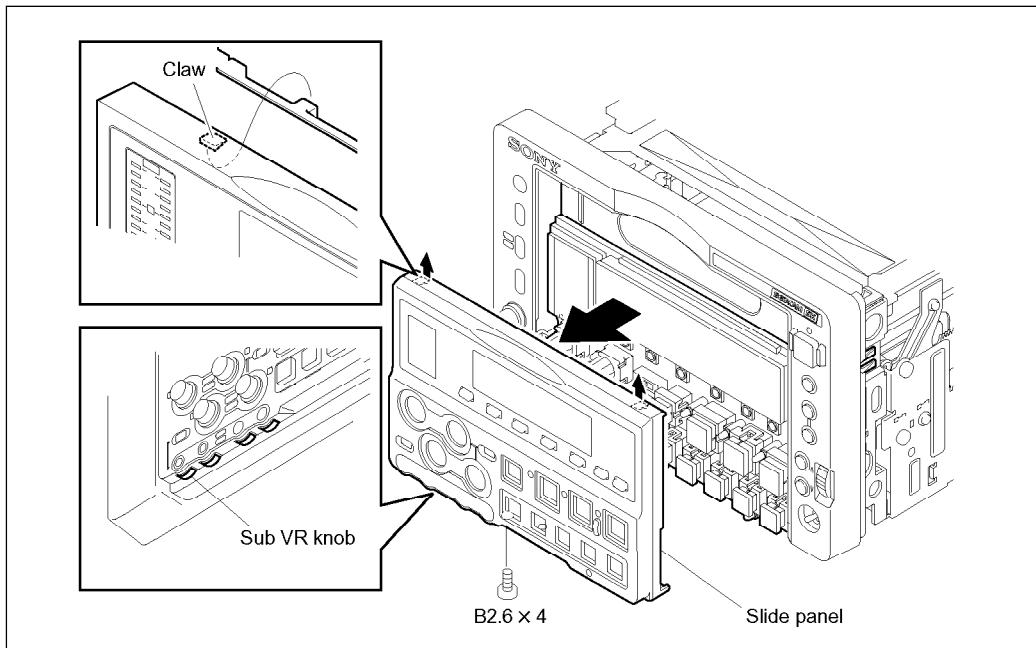
1-4-3. Slide Panel and Front Panel

Slide Panel

1. Move the slide panel downward so that the cassette tape can be inserted.
2. Remove a screw at the bottom of the slide panel.
3. Slightly lift up the upper two portions of the slide panel to disengage the claws as shown in the figure. Being careful not to obstruct the slide panel against the sub VR knob, remove the slide panel in the direction of the arrow.
4. Reattach the slide panel in the reverse order of steps 1 to 3.

Notes

- Make sure that the two claws at the top of the slide panel are surely locked to the bracket above the VFD assembly.
- After reinstalling, make sure that each button of the push switch and each knob of the slide switch are surely inserted in each hole of the slide panel.
- After reinstalling, make sure that the slide panel moves up and down smoothly.

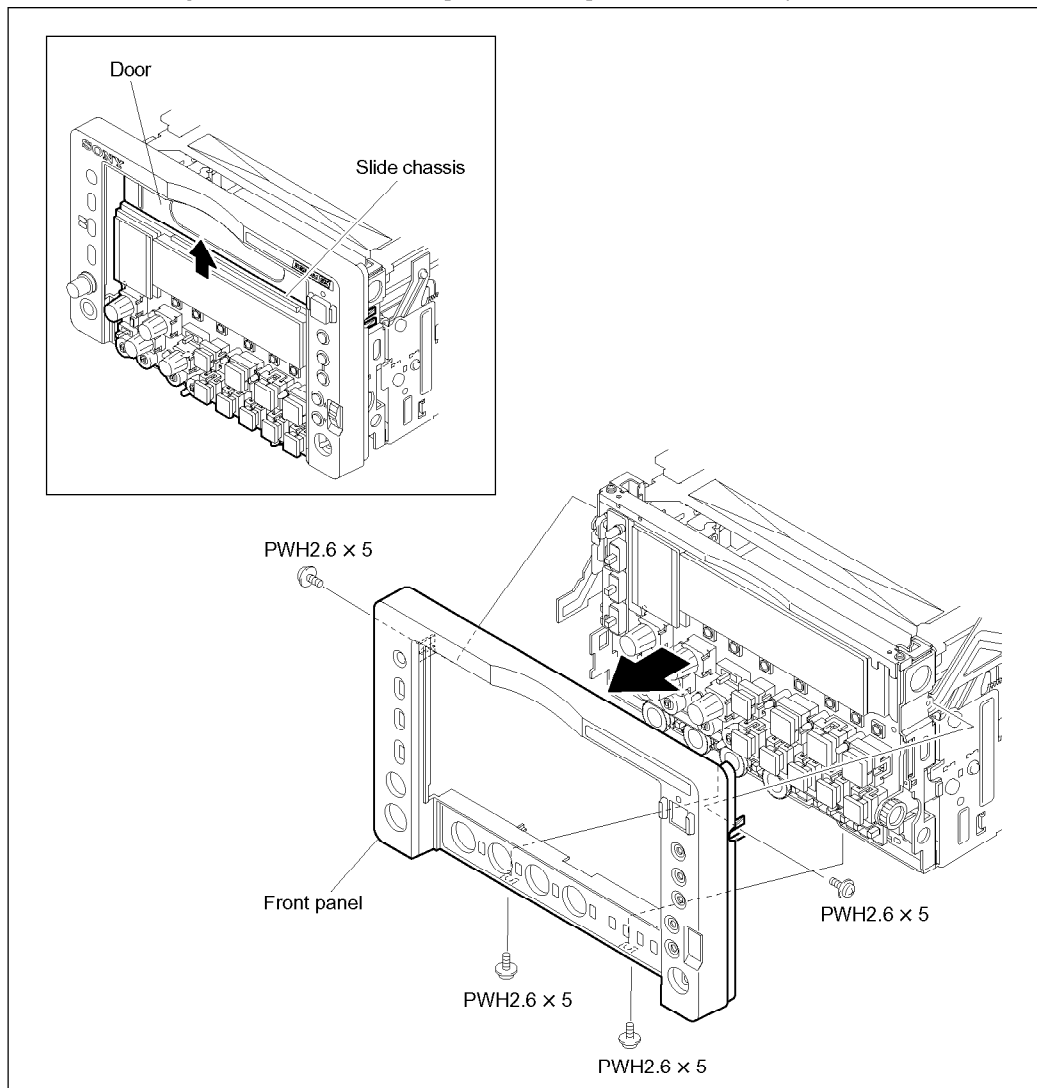


Front Panel

1. Remove the top plate. (Refer to Section 1-4-1.)
2. Remove the bottom plate. (Refer to Section 1-4-2.)
3. Remove the slide panel.
4. Remove the two screws at right and left sides of the front panel, and two screws at the bottom side.
5. Move the slide chassis upward to disappear the cassette insertion door.
6. Remove the front panel to the front.
7. Reattach the front panel in the reverse order of steps 1 to 6.

Notes

- Make sure that the two claws at the top of the slide panel are surely locked to the bracket above the VFD assembly.
- After reinstalling, make sure that each button of the push switch and each knob of the slide switch are surely inserted in each hole of the front panel and slide panel.
- After reinstalling, make sure that the slide panel moves up and down smoothly.



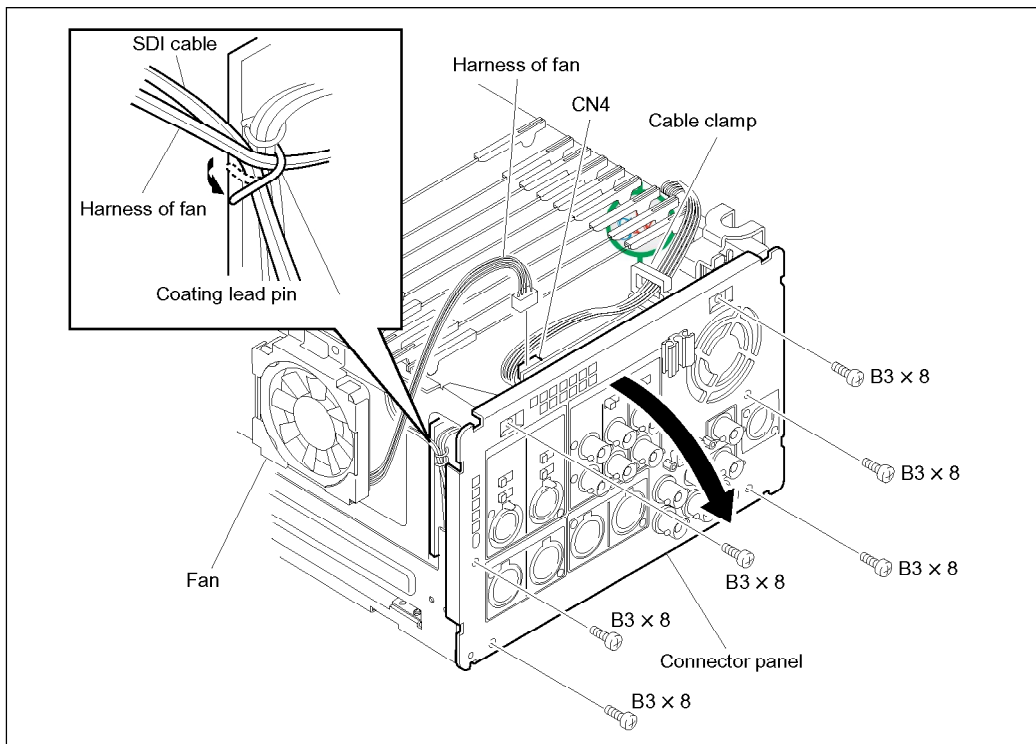
1-4-4. Connector Panel

1. Remove the top plate. (Refer to Section 1-4-1.)
2. Remove the six screws securing the connector panel.
3. Remove the fan harness from the coating lead pin which fastening the two harnesses connected to SY-259B and AU-249 boards with it.
4. Disconnect the harness connector of the fan from the connector (CN4) at the top edge of the CP-354 board.
5. Unfasten the SDI cables from the coating lead pin as shown in the figure.
6. Unfasten the two harnesses connecting to the SY-259B and AU-249 boards from the cable clamps.
7. Open the connector panel.

Note

If the power is turned on in this state, the fan trouble alarm occur. In this case, turn the switch S201-5 on the SY-259B board to ON to disappear the alarm display and enable the normal operation. After completing the service operation, be sure to turn the switch S201-5 back to OFF.

8. Reattach the connector panel in the reverse order of steps 1 to 7.

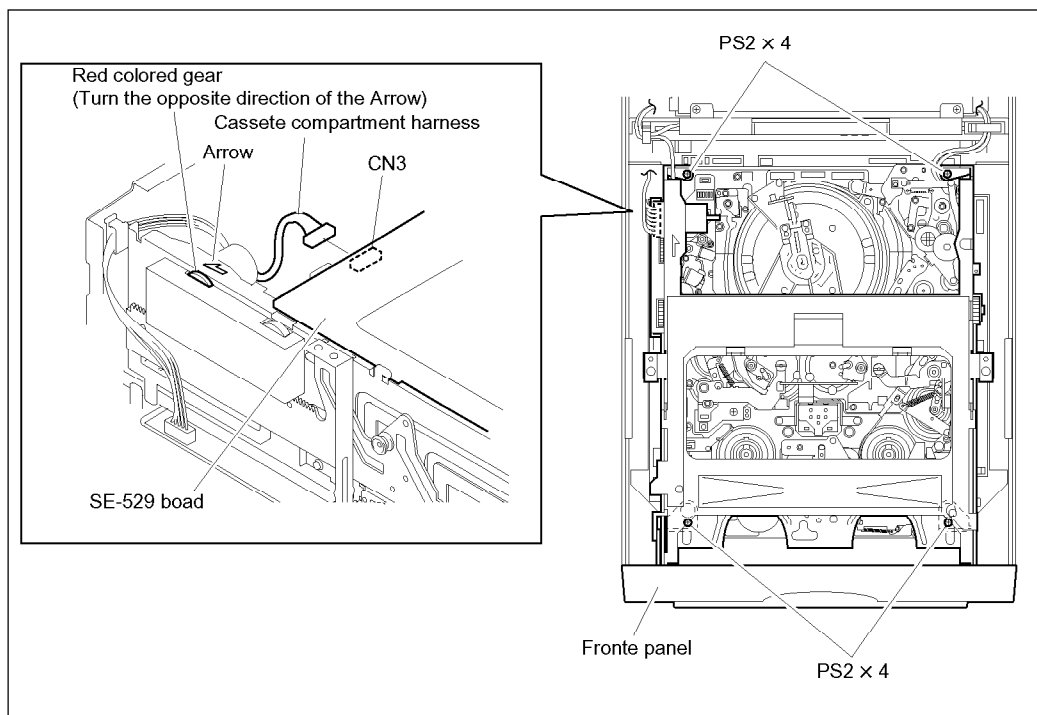


1-5. Removing/Reinstalling the Cassette Compartment

Note

When removing or reinstalling the cassette compartment, it is possible for screws to fall into the mechanical deck assembly. To prevent this, it is recommended to magnetize the screwdriver bit moderately.

1. Make sure the unit is in the unthreading end state.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Turn the red colored gear at the back right side of the cassette compartment to the opposite direction of arrow (EJECT) until the two securing screws at the front side of the cassette compartment comes into sight.

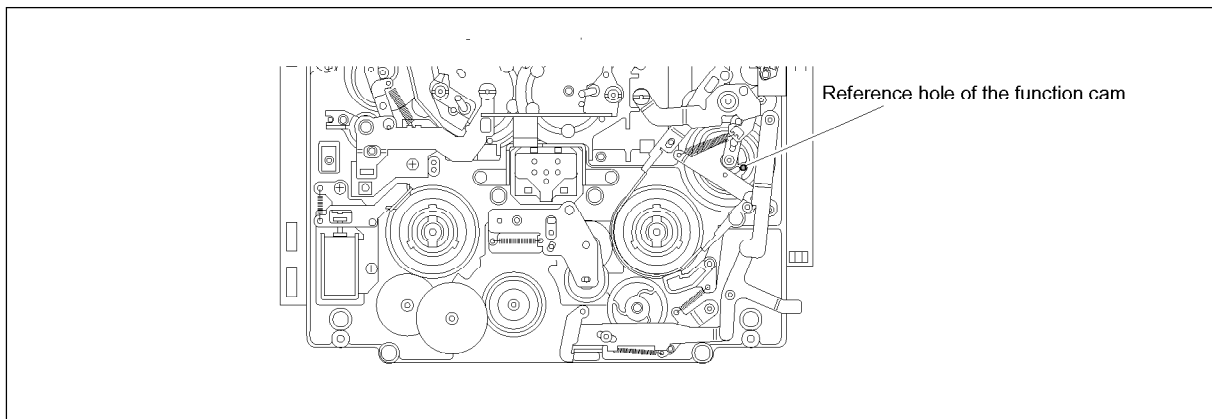


4. Disconnect the connector of the cassette compartment harness from the connector (CN3) on the SE-529 board.
5. Remove the four screws, and then remove the cassette compartment from the mechanical deck assembly while moving it back and forth gradually.

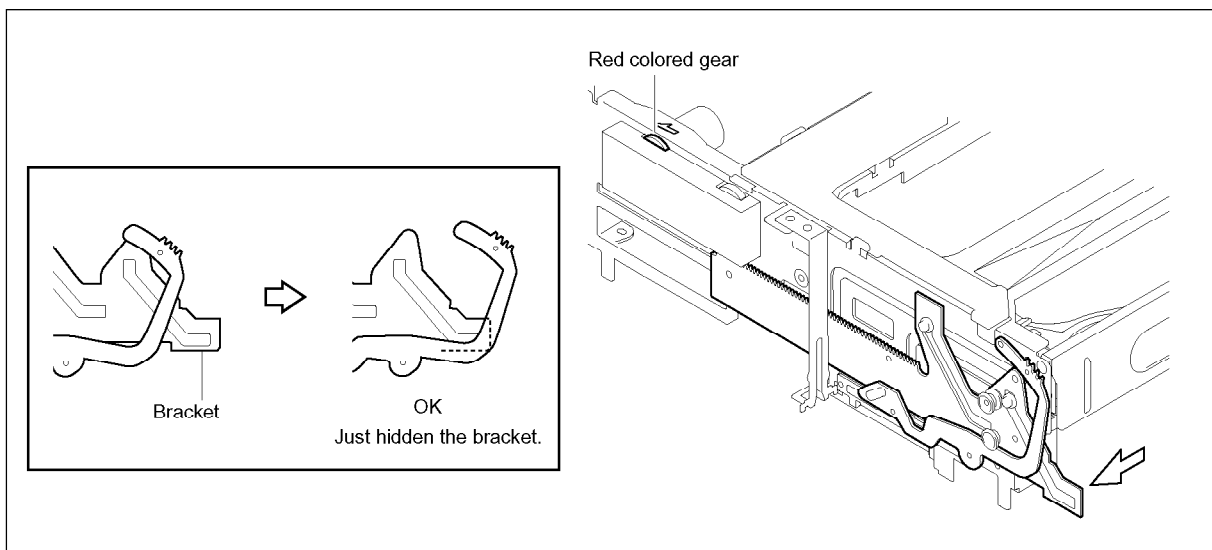
6. Reattach the cassette compartment in the reverse order of steps 1 to 5.

Notes

- Make sure that the slide panel is down.
- When reinstalling, make sure that the reference hole of the function cam on the mechanical deck assembly comes in sight in the position shown in the figure.
If not, adjustment is required. The adjustment can be performed in two possible methods:
(a) Turn on the power once. The reference hole will return to the proper position automatically.
(b) Turn the manual eject knob (red) while pressing down until the reference hole of the function cam comes into sight.



- Make sure that the bracket of the cassette compartment shown in the figure is in the OK position. If not, turn the red colored gear of the cassette compartment.



- When reinstalling, take care that the harnesses connected with the brush of the drum are not caught.
- The screws securing the cassette compartment should be tightened as the following tightening torque.
Tightening torque: $20 \times 10^{-2} \text{ N} \cdot \text{m}$ {2.0 kgf·cm}

1-6. Disconnecting/Reconnecting the Printed Circuit Boards

This section explains the disconnecting and reconnecting procedures for plug-in boards and DM-114/114P board.

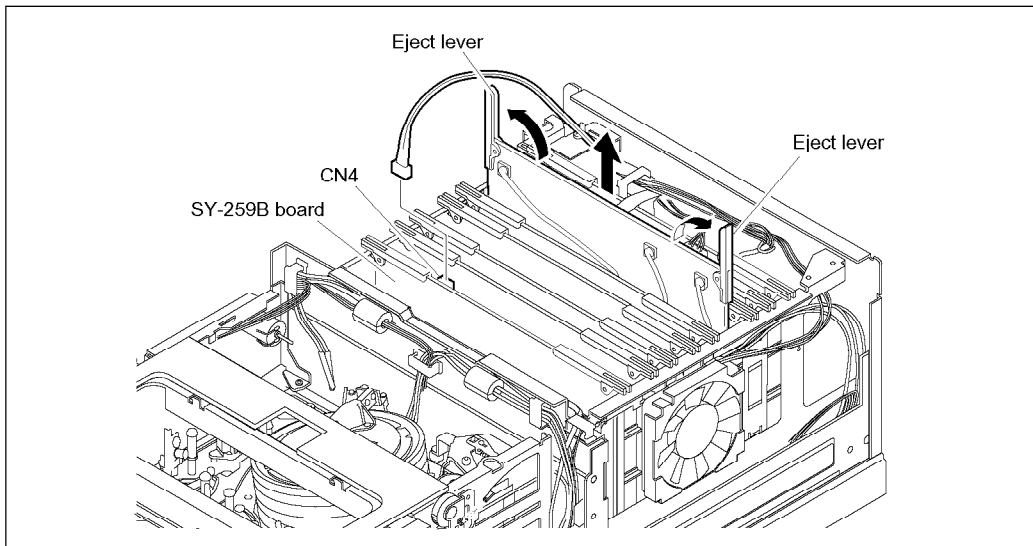
Note

Before disconnecting or reconnecting the printed circuit board, be sure to turn off the power. To power off, be sure to disconnect the battery or the cable connected to the DC IN connector, in addition to turning off the power switch.

1-6-1. Plug-in Boards

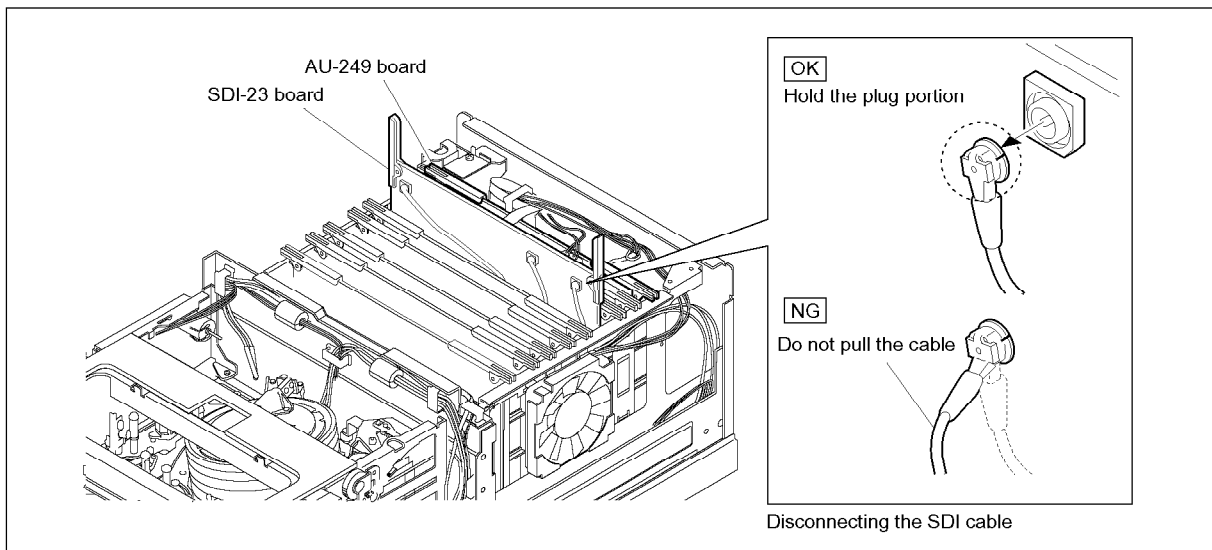
Disconnecting

1. Remove the top plate. (Refer to Section 1-4-1.)
2. Disconnect the harness connector from the connector CN4 on the SY-259B board.
3. Rise the eject levers as shown in the figure and pull the plug-in board out to upward.



Notes

- Before disconnecting the AU-249 board, disconnect the harness connector (CN1) extending from the connector panel.
- Before disconnecting the SY-259B board, disconnect the harness connector (CN4) extending from the connector panel.
- Before disconnecting the SDI-23 board, disconnect the three SDI cables (red, yellow and orange) connected to the SDI-23 board. When disconnecting the SDI cables, be sure to hold the plug portion. Do not pull the cable itself.



Reconnecting

1. While tilting the board levers on both sides of the plug-in board, insert the plug-in board into the slots of the chassis. Finally pressed down the lever positions of the plug-in board as far as it will go so that the plug-in board is surely connected to the MB-757A board.

Note

When reinstalling the AU-249, SY-259B or SDI-23 board, reconnect the harness connector to the board.

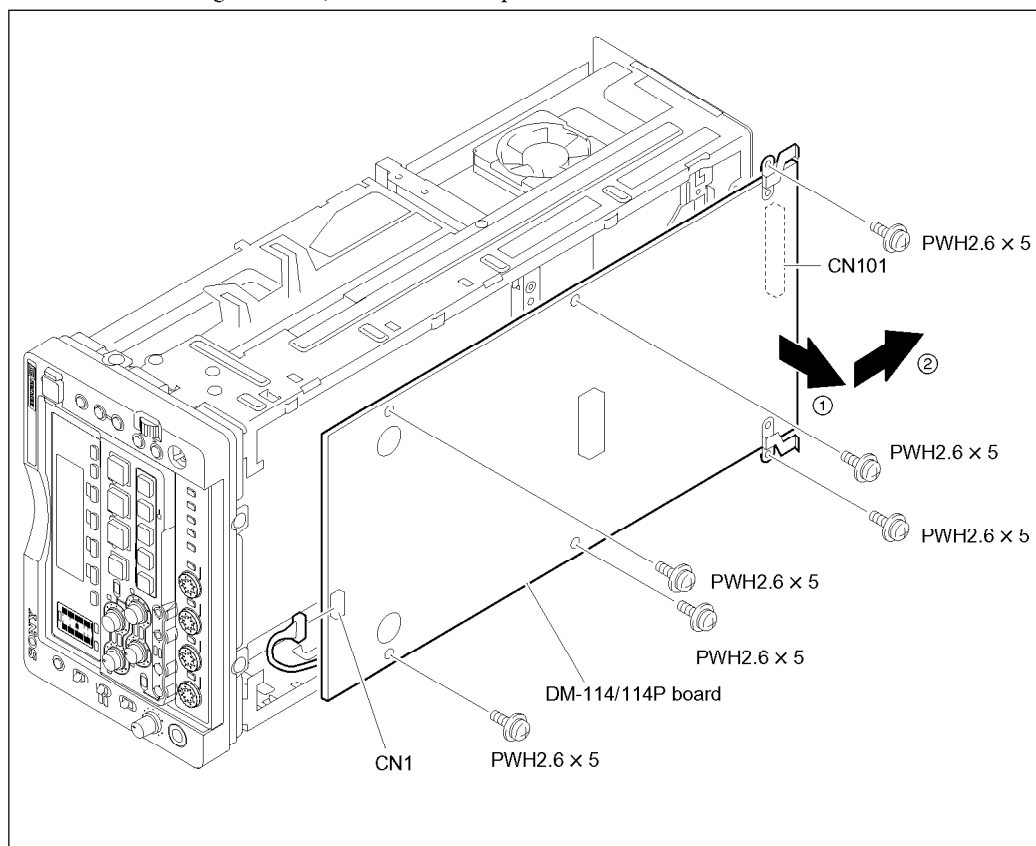
2. Reattach the top panel. (Refer to Section 1-4-1.)

1-6-2. DM-114/114P Board

1. Remove the bottom plate. (Refer to Section 1-4-2.)
2. Remove the six screws securing the DM-114/114P board.
3. Move the DM-114/114P board at the connector panel side in the arrow ① direction to disconnect the connector CN101 connected with the MB-757A board, and then move it in the arrow ② direction to remove the board.
4. Disconnect the connector (CN1) on the DM-114/114P board.
5. Reattach the DM-114/114P board in the reverse order of steps 1 to 4.

Note

When reinstalling the board, be careful not to pinch the harness between the board and chassis.



1-7. Board Extension during Maintenance Service

1-7-1. Plug-in Board

Extend the plug-in board using the extension board EX-706 (option) when it is checked and adjusted.

Extension board	Part No.	Connected plug-in boards
EX-706	A-8321-000-A	APR-27A, AU-249, DEC-97, DPR-87, EQ-72, SDI-23, SY-259B SY-260, TG-191, VPR-34

Extension

Notes

- Be sure to turn off the power when removing and reinstalling the board. To power off, be sure to disconnect the cable connected to the DC IN connector or the battery, in addition to turning off the power switch.
- The EQ-72 board differs in an extension method. Refer to “1-7-2. EQ-72 Board” when extending the EQ-72 board.

1. Remove the plug-in board to be checked or adjusted. (Refer to Section 1-6-1.)

Note

Before removing the plug-in board, remove the harnesses connected between SY-259B and AU-249 boards and connector panel from the cable clamp.

2. Connect the connectors on the extension board EX-706 to the connectors on the motherboard.

Note

Insert the extension board EX-706 with side A in the front.

3. Connect the connectors on the plug-in board to the connectors on the extension board EX-706.

Note

Be sure to check the three SDI cables are surely connected to the SDI-23 board when the SDI-23 board is extended.

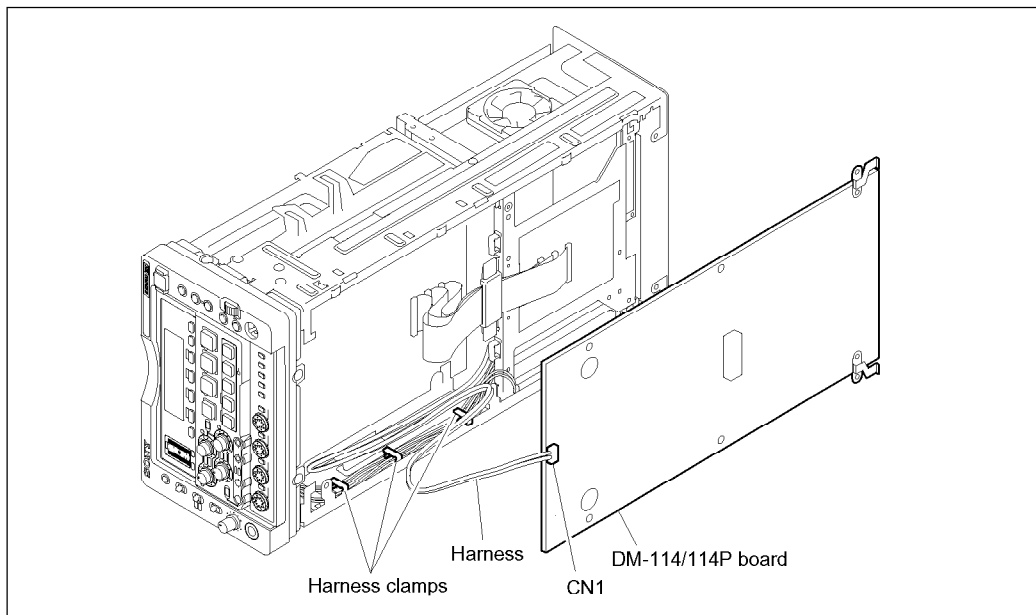
4. Reinstall the plug-in board in the reverse order of steps 1 to 3.

1-7-2. EQ-72 Board

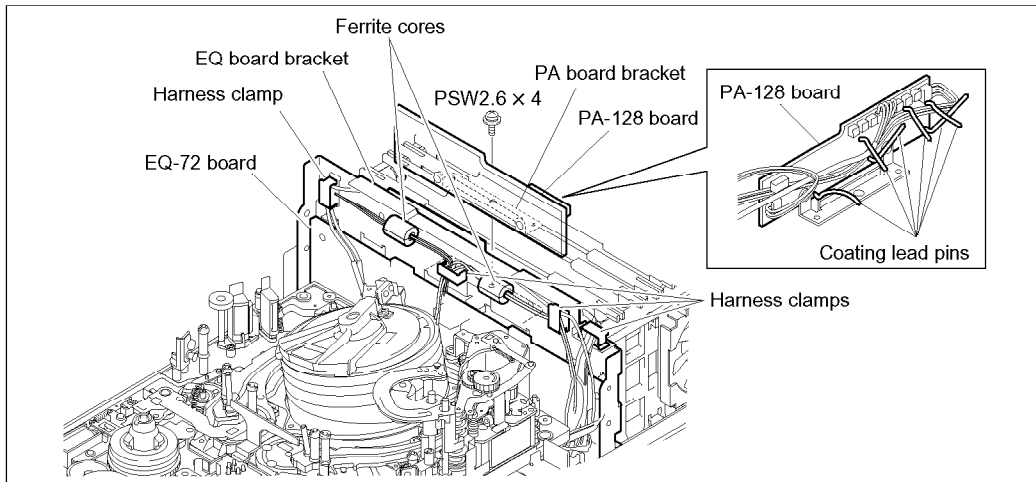
Note

Be sure to turn off the power when removing and installing the board. To power off, be sure to disconnect the cable connected to the DC IN connector or the battery, in addition to turning off the power switch.

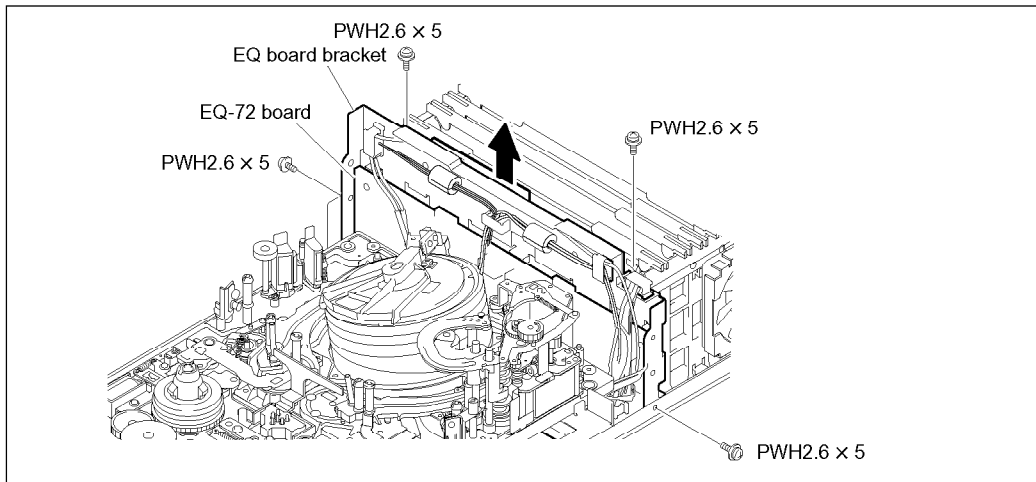
1. Remove the top plate. (Refer to Section 1-4-1.)
2. Remove the bottom plate. (Refer to Section 1-4-2.)
3. Remove the cassette compartment. (Refer to Section 1-5.)
4. Open the DM-114/114P board. (Refer to Section 1-6-2.)
5. Unfasten the three harness clamps, and free the harness connected between connector (CN1) of the DM-114/114P board and EQ-72 board.



6. Unfasten the four harness clamps shown in the figure, and free all harnesses clamped with these harness clamps.
7. Open the two ferrite cores, and free all harnesses.
8. Unfasten the four coating lead pins on the PA-128 board, and free all harnesses.
9. Remove a screw securing the PA board bracket from the EQ bracket.



10. Remove the four screws securing the EQ bracket, and pull the EQ bracket with board out to upward.



11. Connect the extension board EX-706 to the motherboard.
12. Connect the connectors on the EQ-72 board to the connectors on the extension board EX-706.
13. Reinstall the EQ-72 board in the reverse order of steps 1 to 12.

Notes

- When reinstalling the EQ-72 bracket, be careful not to pinch the harnesses between the bracket and chassis.
- Press down the EQ bracket to connect the EQ-72 board to the motherboard.
- Clamp the harnesses of the drum side with the four harness clamps.
- Close the two ferrite cores while taking care not to pinch the harnesses. After that, check that the ferrite cores move smoothly right and left.
- Hold the harnesses connected to the PA-128 board with the four coating lead pins soldered on the PA-128 board.

1-7-3. DM-114/114P Board

Extension

Note

Be sure to turn off the power when removing and installing the board. To power off, be sure to disconnect the cable connected to the DC IN connector or the battery, in addition to turning off the power switch.

1. Remove the DM-114/114P board. (Refer to Section 1-6-2.)
2. Unfasten the three harness clamps, and free the harness connected with the connector (CN1) on the DM-114/114P board.
3. Connect the connector (CN100) while inserting portions ① and ② of reinforcement plates on the DM-114/114P board into the grooves A and B of the unit.

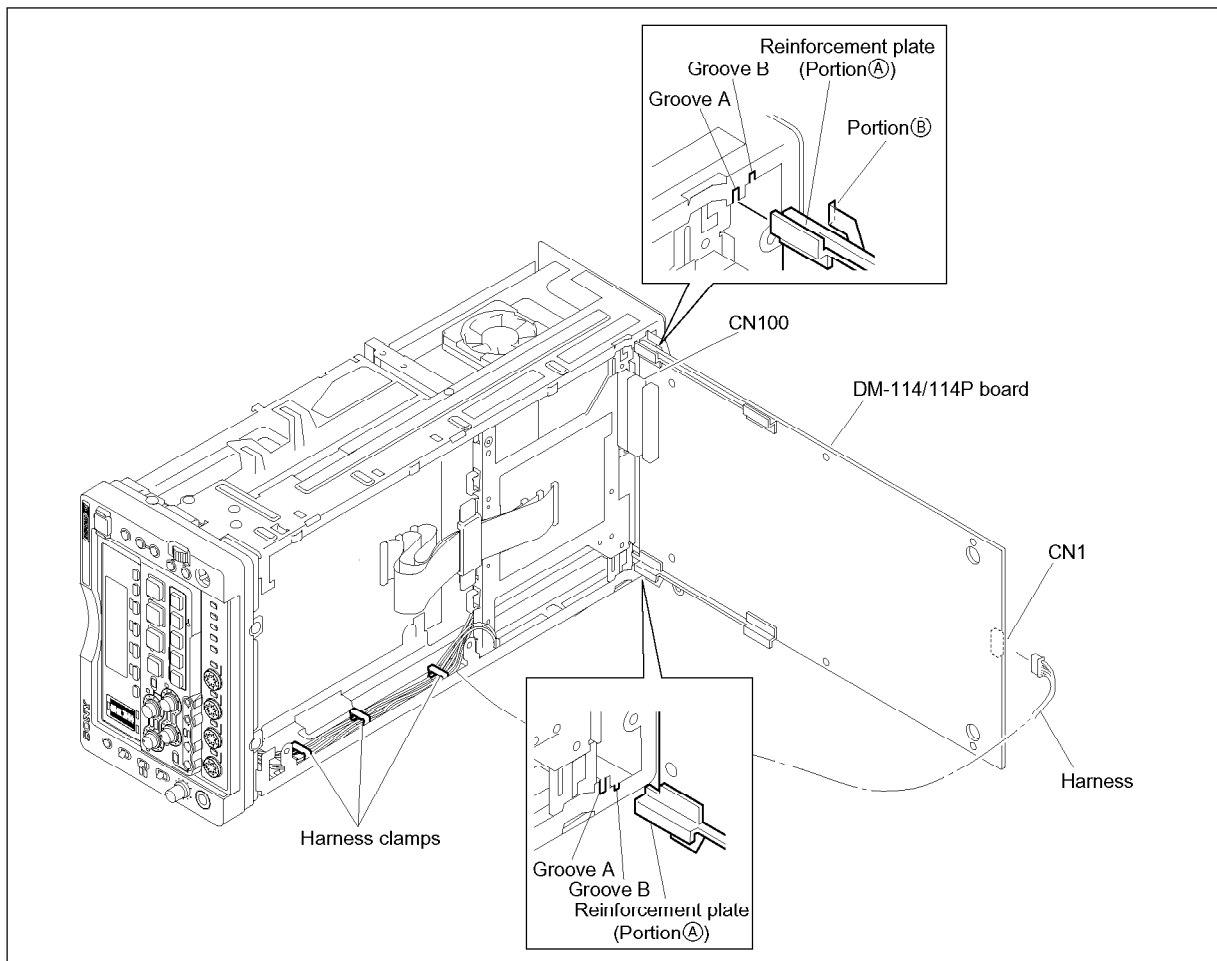
Note

Ensure that the bended portions ② (both top and bottom) are surely held by grooves B.

4. Reinstall the board in the reverse order of steps 1 to 3.

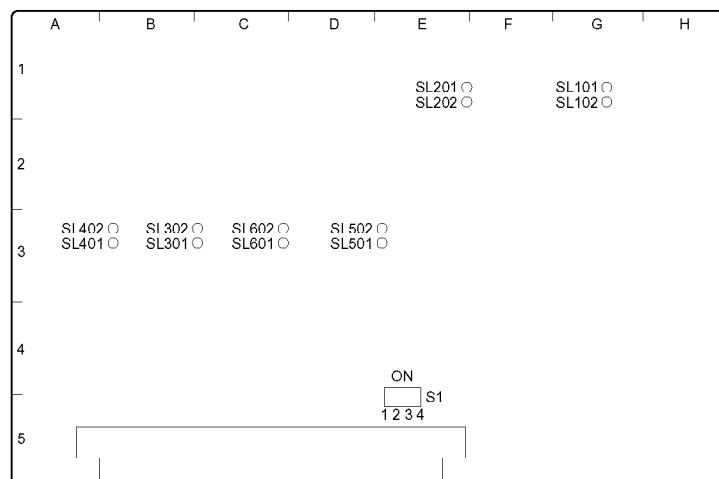
Note

When reinstalling the DM-114/114P board, be careful not to pinch the harness between the board and chassis.



1-8. Settings for Internal Switches/Slit Lands

AU-249 Board



AU-249 Board (A Side)

Settings for Audio Input Headroom CH1, CH2 (for slit lands)

Channel	Ref.No.(Indication)	Input headroom (20 dB)	Factory setting	
			18 dB	16 dB
CH1	SL101 (18 dB)	Open	Short	Open
	SL102 (16 dB)	Open	Open	Short
CH2	SL201 (18 dB)	Open	Short	Open
	SL202 (16 dB)	Open	Open	Short

Settings for Audio Output Headroom CH1/CH3, CH2/CH4 (for slit lands)

Note

Selections of CH1/CH3 and CH2/CH4 are made using the sub menu.

Channel	Ref.No.(Indication)	Output headroom (20 dB)	Factory setting	
			18 dB	16 dB
CH1/CH3	SL301 (18 dB)	Open	Short	Open
	SL302 (16 dB)	Open	Open	Short
CH2/CH4	SL401 (18 dB)	Open	Short	Open
	SL402 (16 dB)	Open	Open	Short

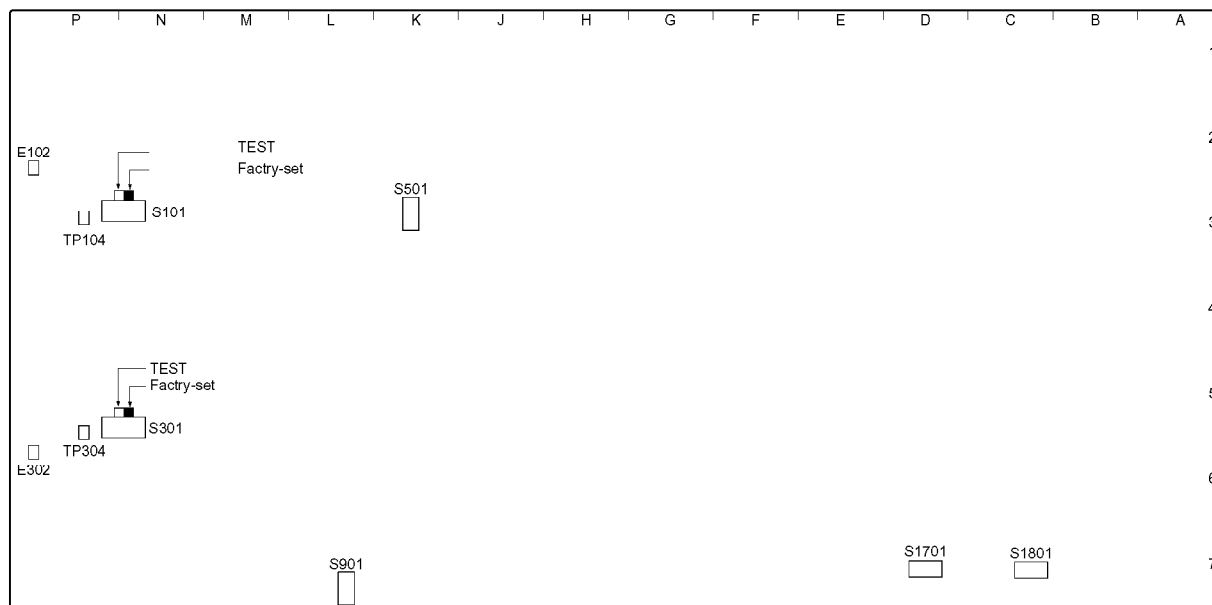
Settings for Monitor Output Headroom (for slit lands)

Channel	Ref.No.(Indication)	Output headroom () : Factory setting		
		(20 dB)	18 dB	16 dB
L	SL501 (18 dB)	Open	Short	Open
	SL502 (16 dB)	Open	Open	Short
R	SL601 (18 dB)	Open	Short	Open
	SL602 (16 dB)	Open	Open	Short

Switches**Note**

Do not change settings of the factory-use switches.

Ref.No.	Description	Factory setting
S1-1	Factory use	OFF
S1-2	Factory use	OFF
S1-3	Factory use	OFF
S1-4	Factory use	OFF

DM-114/114P Board

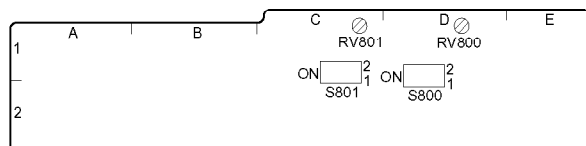
DM-114/114P Board (B Side)

Switches**Note**

Do not change settings of the factory-use switches.

Ref.No.	Switch name	Description	Factory setting
S101	Y EQ TEST	Test signal connection switch for Y RF LPF&EQ adjustment In adjusting, input the test signal to TP104 (GND to E102) with S101 set to TEST (see illustration) position	See illustration
S301	C EQ TEST	Test signal connection switch for C RF LPF&EQ adjustment In adjusting, input the test signal to TP304 (GND to E302) with S301 set to TEST (see illustration) position	See illustration
S501		Factory use	OFF
S901-1	RF ADJ	Use for RF EQ adjustment. OFF: Normal mode ON: Adjustment/Test mode	OFF
S901-2		Factory use	OFF
S901-3	AGC OFF	Turns on and off the AGC function during RF EQ adjustment OFF: Normal mode (AGC is turned on) ON: AGC is turned off	OFF
S901-4		Factory use	OFF

Ref.No.	Switch name	Description	Factory setting
S1701-1	Y MUTE	OFF: Normal mode ON: Luminance signal is muted	OFF
S1701-2		Factory use	OFF
S1701-3		Factory use	OFF
S1701-4	C MUTE	OFF: Normal mode ON: Color difference signal is muted	OFF
S1701-5	COMB	Selects whether a comb filter is turned on or off when the color difference signal has the significant line crawl which the LCC cannot correct OFF: Normal mode (Comb filter is turned off) ON: Comb filter is turned on	OFF
S1701-6		Factory use	OFF
S1701-7		Factory use	OFF
S1701-8		Factory use	OFF
S1801-1	D CLP OFF	Turns on and off the digital clamp function Usually turn off this switch, and a DC difference between B-Y and R-Y signals (if present) is corrected by the digital clamp function Turn on only to turn off the digital clamp for test OFF: Normal mode (Digital clamp is turned on) ON: Digital clamp is turned off	OFF (Digital clamp ON)
S1801-2		Factory use	OFF
S1803-3		Factory use	OFF
S1803-4		Factory use	OFF

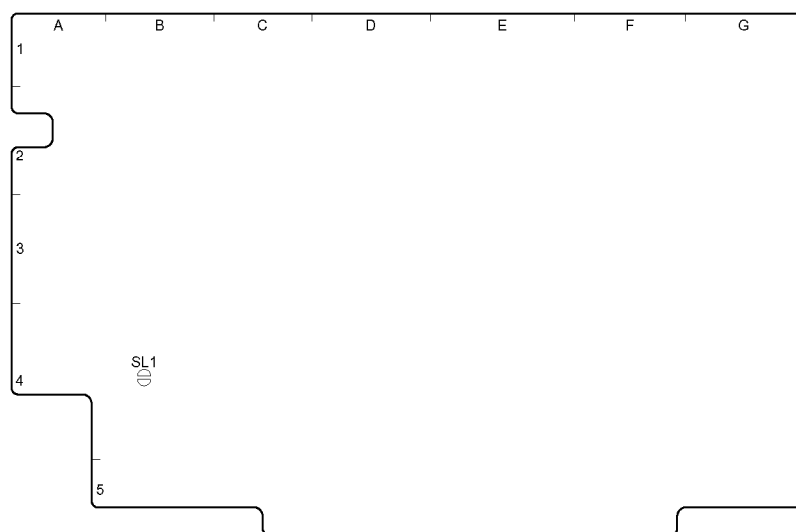
PA-218 Board

PA-218 Board (A Side)

HEAD TUNE switches (for Betacam/Betacam SP longitudinal audio playback)

At installation, it is unnecessary to change setting of these switches.

Channel	Ref.No	Description
CH1	S800	Adjusts the CH1 head amp high frequency response together with RV800 This switch adjusts the resonance frequency and RV800 adjusts the audio head dumping Switch position differs depending on the adjustment condition at the factory
CH2	S801	Adjusts the CH2 head amp high frequency response together with RV801 This switch adjusts the resonance frequency and RV801 adjusts the audio head dumping Switch position differs depending on the adjustment condition at the factory

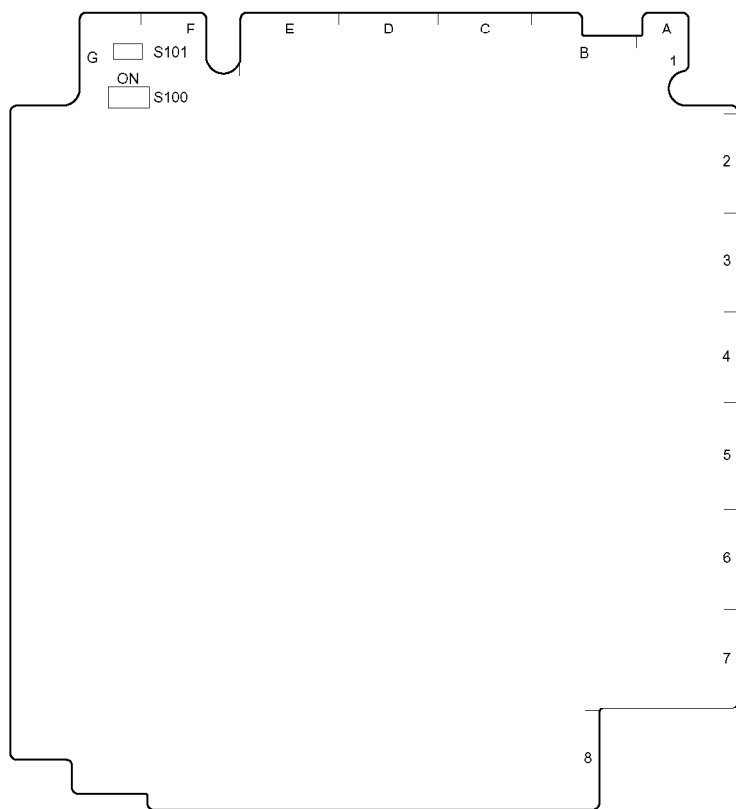
RE-150 Board

RE-150 Board (A Side)

Slit Land

Ref.No.	Description	Factory setting
SL1	Selects how the power is derived when the battery and external power supply are used simultaneously Open: Always derived from the external power supply Short: Normally derived from the external power supply When an input voltage is 10.5 V or below, automatically selects the battery	Open

SV-194A Board



SV-194A Board (D Side)

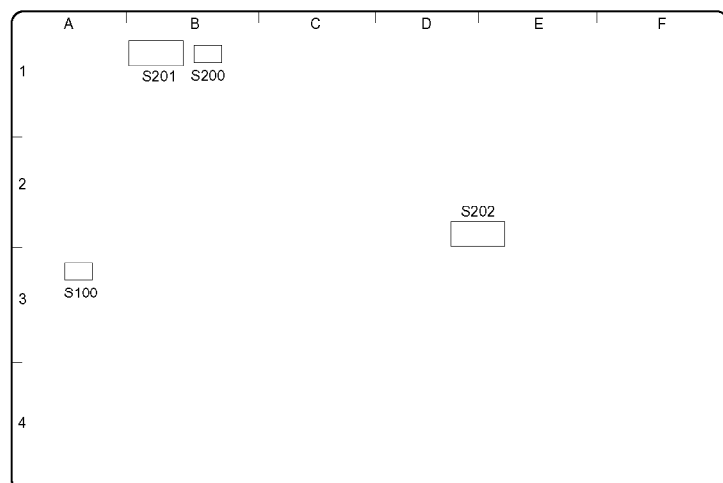
Switches

Note

Do not change settings of the factory-use switches.

Ref.No.	Switch name	Description	Factory setting
S100-1	CASSETTE COMPARTMENT LOCK	Turns on and off the function to assume that the cassette compartment is locked without the cassette compartment installed ON: Assumes the cassette compartment is locked OFF: Normal mode	OFF
S100-2	SERVO ERR NOT DET	Turns on and off the function to detect the servo error ON: Servo error is not detected OFF: Normal mode	OFF
S100-3		Factory use	OFF
S100-4	AUTO TRACKING OFF	Turns on and off the function to inhibit the auto-tracking during the tape path adjustment ON: Inhibits the auto-tracking (Tracking VR becomes active) OFF: Normal mode	OFF
S100-5		Factory use	OFF
S100-6		Factory use	OFF
S101	INITIAL	When powered on while pressing this switch, the servo adjustment data is returned to its default value	—

SY-259B Board



SY-259B Board (A Side)

Switches

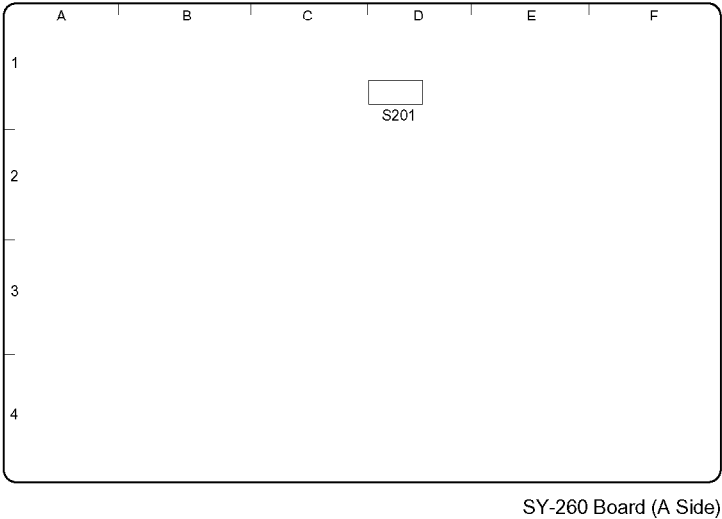
Note

The switches S202-5 to S202-8 have been set at the factory according to the characteristics of a VTR or unit. Only when replacing the board, be sure to change settings following instructions.

Also do not change settings of the factory-use switches.

Ref.No.	Switch name	Description	Factory setting
S100	SYSTEM RESET	Press to reset system control operation	—
S200	MAINT MODE START	Press to start the maintenance mode	—
S201-1	EXTENDED MENU	Turns on and off the indication of extended setup menu OFF: Not indicated ON: Indicated	OFF
S201-2	MAINT MODE ACCESS	OFF: Not accessible to the maintenance mode from the front panel ON: Accessible to the maintenance mode from the front panel	OFF
S201-3 to S201-8		Factory use	OFF
S202-1		Factory use	OFF
S202-2		Factory use	OFF
S202-3		Factory use	OFF
S202-4		Factory use	ON
S202-5		Factory use	OFF
S202-6		Factory use	OFF
S202-7	J/UC	OFF: for Japan ON: except Japan	ON
S202-8	525/625	OFF: 525/60 model ON: 625/50 model	OFF (for DNW-A28) ON (for DNW-A28P)

SY-260 Board

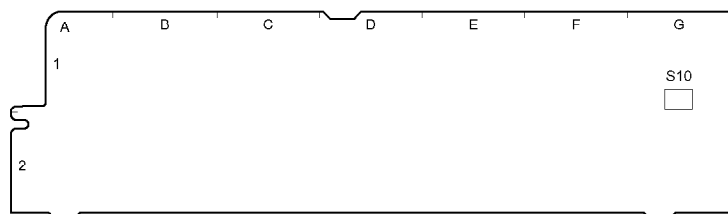


Switches

Note

Do not change settings of the factory-use switches.

Ref. No.	Switch name	Description	Factory setting
S201-1	PINCH ON/OFF	Selects the pinch solenoid ON/OFF operation ON: Normal mode OFF: Inhibits the pinch solenoid operation	ON
S201-2~ S201-8		Factory use	OFF

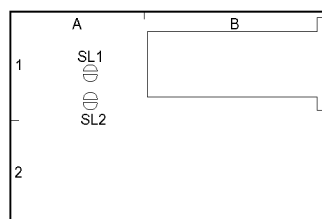
SW-21 Board

SW-21 Board (A Side)

Switches**Note**

Do not change settings of the factory-use switches.

Ref. No.	Switch name	Description	Factory setting
S10-1	BATT ID	Factory use	OFF
S10-2		Factory use	OFF

HP-100 Board

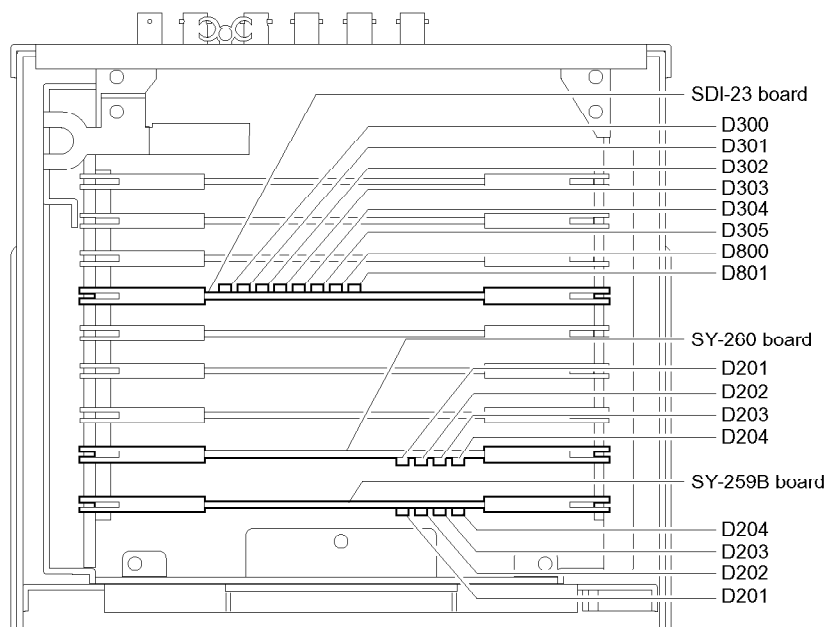
HP-100 Board (A Side)

Slit Lands**Note**

Do not change settings of the factory-use slit lands.

Ref. No.	Description	Factory setting
SL1	Factory use	Open
SL2	Factory use	Open

1-9. Description on Internal Indicators



SDI-23 Board

Note

The indicators D302 to D305 function properly when the received signal conforms to the EDH* (with D301 lit).

* EDH : Error Detection and Handling

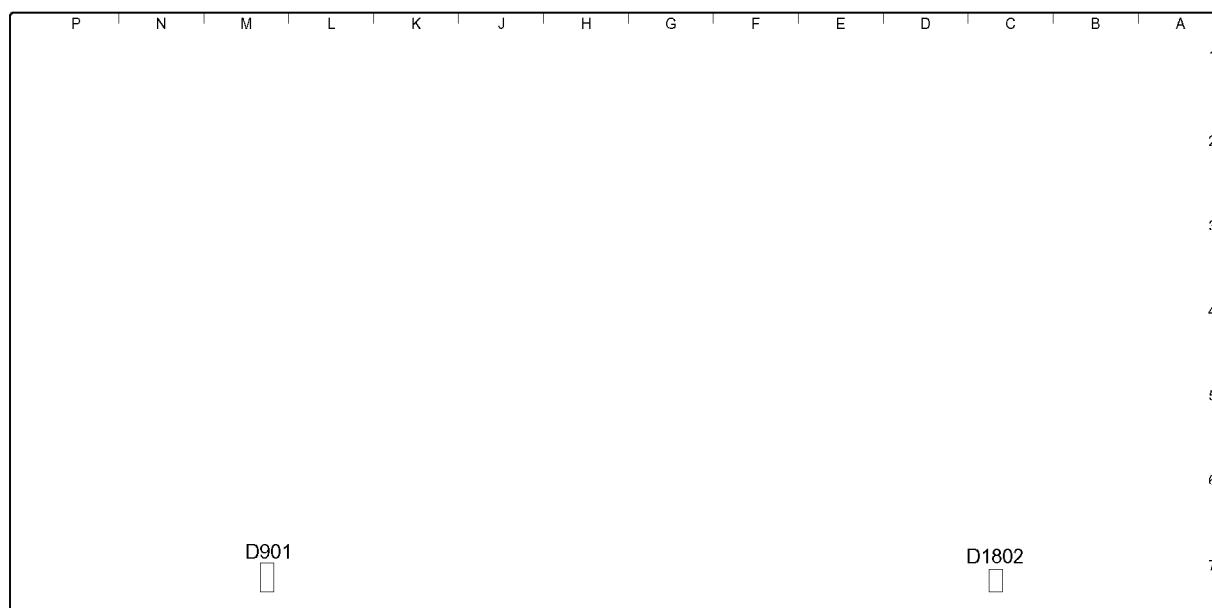
Ref.No.	Indicator name	Color	Description	Normal state
D300	SDI INPUT EXIT	Green	Lit when detecting the SDI format signal input at SDI IN connector	ON
D301	RX EDH VALIDITY	Green	Lit when the received signal at SDI IN connector conforms to the EDH	ON
D302	RX EDH OTHER ANC ERROR	Red	Lit when another ancillary data exists in the EDH portion of the received signal at SDI IN connector	OFF
D303	RX EDH ACTIVE PICTURE ERROR	Red	Lit when an active picture EDH error is detected from the received signal at SDI IN connector	OFF
D304	RX EDH FULL FIELD ERROR	Red	Lit when a full-field EDH error is detected from the received signal at SDI IN connector	OFF
D305	RX EDH ANCILLARY DATA ERROR	Red	Lit when an ancillary data EDH error is detected from the received signal at SDI IN connector	OFF
D800	SDI TRS NO ERROR	Green	Lit when the SDI format signal is normally received at SDI IN connector	ON
D801	VCO ADJ OF MAINTENANCE	Green	Lit when EVR (electronic volume) data comes near its proper value during VCO free-run adjustment in the maintenance mode	—

SY-259B Board

Ref.No.	Indicator name	Color	Description	Normal state
D201	SY1 STS1	Green	Blinks when the SYS1 CPU normally operates	Blinking
D202	SY1 STS2	Green	Lit when communication between SYS1 CPU and front panel is under normal conditions Unlit when the above communication is under abnormal conditions	ON
D203	MAINTE	Green	Lit during execution of the maintenance mode	OFF
D204	SY1 ERR	Red	Lit when the SYS1 CPU does not normally operate Blinks when communication between SYS1 CPU and other CPU (SYS2, or KY) is under abnormal conditions	OFF

SY-260 Board

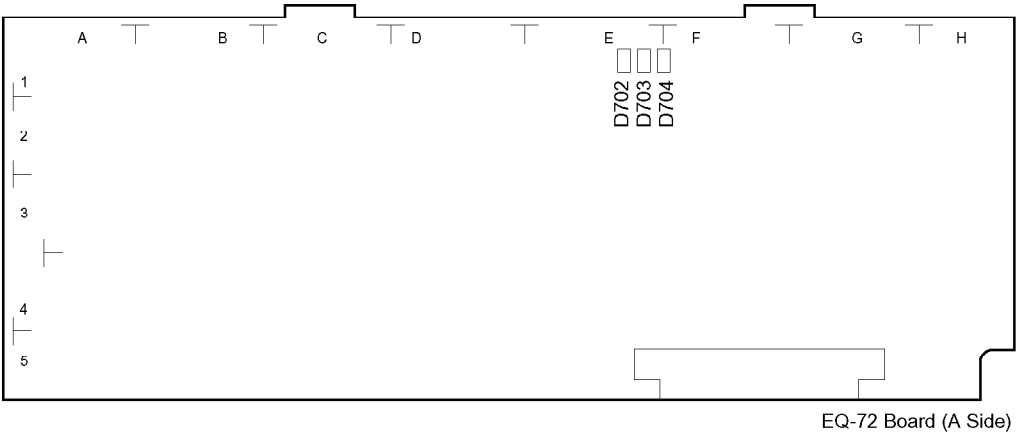
Ref.No.	Indicator name	Color	Description	Normal state
D201	SY2 STS1	Green	Blinks when the SYS2 CPU normally operates	Blinking
D202	SY2 STS2	Green	Lit when communication between SYS2 CPU and SV CPU is under normal conditions Unlit when the above communication is under abnormal conditions	ON
D203	SY2 STS3	Green	Lit when communication between SYS2 CPU and SYS1 CPU is under normal conditions Unlit when the above communication is under abnormal conditions	ON
D204	SY2 ERR	Red	Lit when the SYS2 CPU does not normally operate. Blinks when communication between SYS2 CPU and other CPU (SYS1, or SV) is under abnormal conditions	OFF

DM-114/114P Board

DM-114/114P Board (B Side)

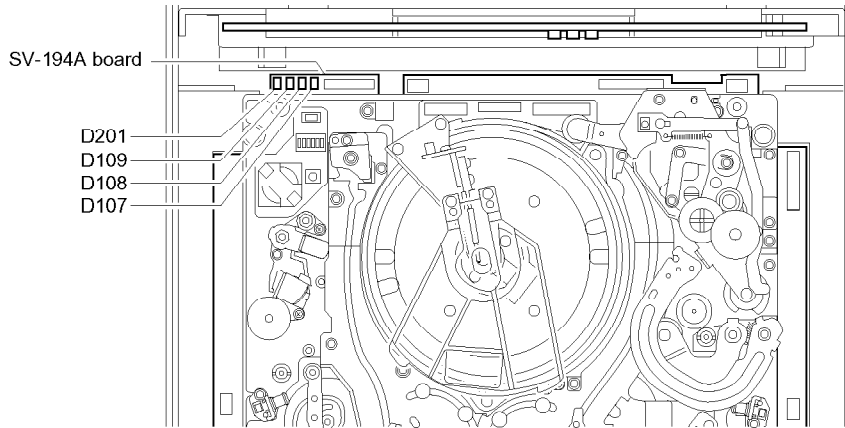
Ref.No.	Indicator name	Color	Description	Normal state
D901	ADJUST	Green	Normally blinks for some ten milliseconds at intervals of about 1 sec. In adjustment mode (with S901-1 turned on), the blink is inverted	Blinking
D1802	TBC	Green	Blinks once a second during TBC micro-computer operation	Blinking

EQ-72 Board



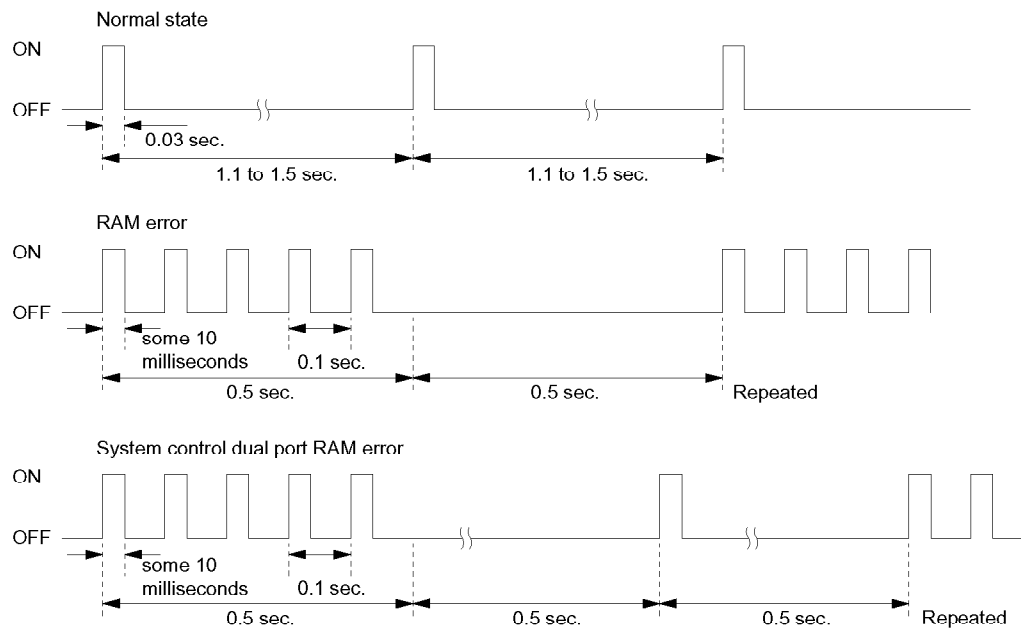
Ref.No.	Color	Description	Normal state
D702	Green	Lit only in the analog playback mode	—
D703	Red	Lit only in the REC mode	—
D704	Red	Blinks when EQ microcomputer normally operates Lit when any of the following errors occurs 1. NV-RAM check sum error 2. NV-RAM verifying error 3. INNER ECC status error 4. REC data parity error 5. When conditions necessary for automatic adjustment are not ready 6. When communication with system control is not started	Blinking

SV-194A Board



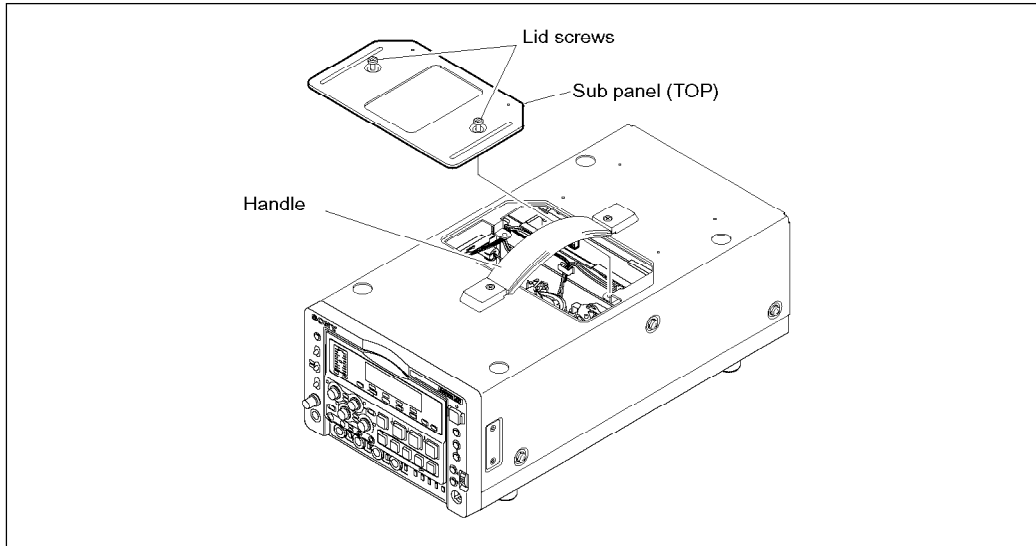
Ref.No.	Indicator name	Color	Description	Normal state
D107	SV	Green	Indicates by changing blinking intervals the result of communication check to ROM and RAM at power on (See illustration below)	Blinking
D108			Not used	—
D109	TRVR	Yellow	Lit when tracking VR operation is active (with S100-4 turned on)	OFF
D201	DRUM	Green	Blinks during drum microcomputer (IC212) operation Normally blinks for 30 milliseconds at intervals of about 1 sec. When the drum is locked, the blink is inverted	Blinking

Blinking pattern of D107

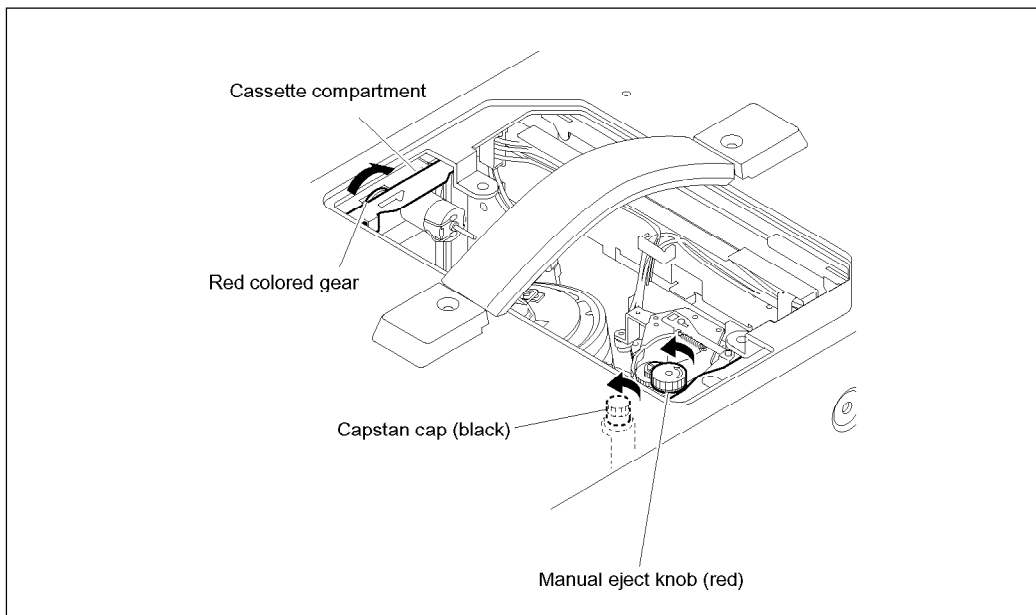


1-10. How to Take Out the Cassette Whose Tape is Slacked

1. Pull up the handle so it bows upwards, and then loosen the two lid screws using a coin and so on to remove the sub panel (TOP).



2. Turn the manual eject knob (red) as shown in the figure counterclockwise while pressing down.
3. When the tape starting to slack, turn the capstan cap portion counterclockwise to take up the tape to the T reel.
4. Repeat steps 2 and 3 until the unthreading operation is completed.
5. When the unthreading operation is completed, turn the red colored gear of the cassette compartment in the direction of the arrow (EJECT) until the cassette compartment is up state as shown in the figure.



1-11. Cleaning Clogged Video Heads

When the video heads are clogged, be sure to clean using a cleaning tape.

If the use of the cleaning tape does not solve clogged, clean using a cleaning cloth.

When using the cleaning tape, use the specified tape (or cloth) and follow only the instructions with an extreme care.

If not, the video heads may be damaged or worn out.

For details on how to clean, refer to Section 4 "Periodic Maintenance and Inspection".

Reference

To clean using a cleaning tape:

4-2-1. Using Cleaning Tape

To clean using a cleaning cloth:

4-2-2. General Information for the Use of Cleaning Cloth

4-2-3. Cleaning of Video Heads and Tape Running Surface of Upper Drum

Specified Cleaning Tape

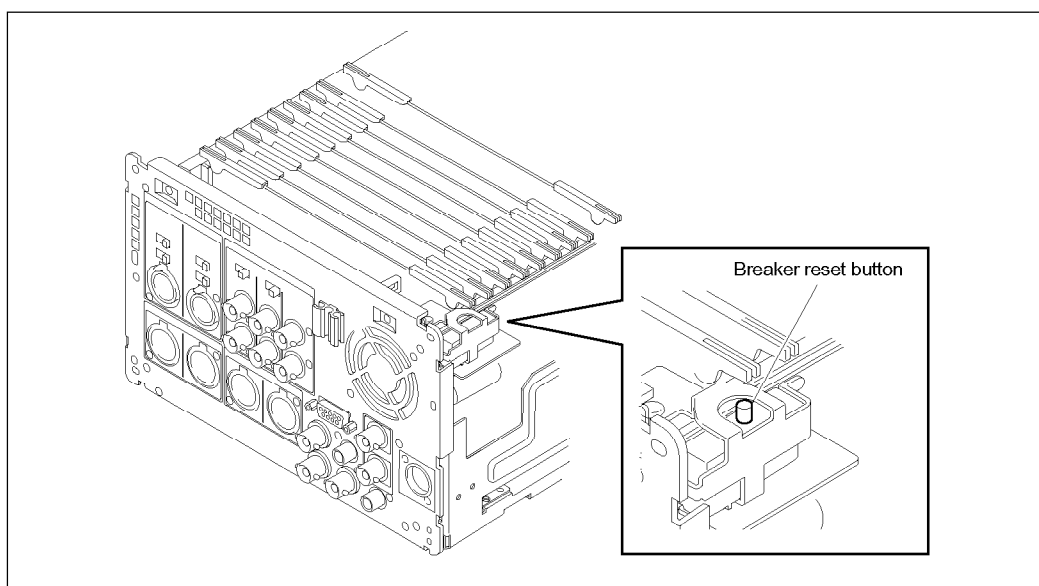
BCT-5CLN

1-12. Power Protection

1-12-1. Reset of Breaker

Overcurrent in the internal circuitry will trip the circuit breaker. If the breaker trips once, turn off the power and remove the top plate, and then check the circuit for overcurrent. To power off, be sure to disconnect the cable connected to the DC IN connector or the battery, in addition to turning off the power switch.

Press the breaker reset button shown in the figure and the power to the unit will be turned on.



1-12-2. IC Link

The IC link F1 is mounted on the CP-354 board. PS600 on the CP-354 board will blow by overcurrent when an equipment connected to the DC OUT connector fails.

If the IC link blows, turn off the power once, and then check the inside of the unit or the peripheral unit being connected to the DC OUT connector to find the cause and recover the unit.

When replacing, be sure to use the specified part.

WARNING

The IC link is critical for safe operation. Be sure to replace it with the specified part to avoid the danger of a fire or electric shock.

Board	Ref.No.	Description	Part No.
CP-354	PS600	IC LINK 2 A	△ 1-533-282-21

1-13. Battery for Memory Backup

The unit is equipped with a battery for the memory (IC112) backup on the SY-259B board. When replacing, be sure to use the specified part.

Replacement Part:	BT112/SY-259B board
Part Description:	M4128-BR12SH1 (lithium-ion battery)
Part No.:	△ 1-767-156-11
Recommended Replacement Period:	Every seven years

In the memory, the following data are stored. When the battery is dead, or replaced with a new one, resetting current menu and menu banks 1 to 4 are required. For details on how to reset, refer to the operation manual supplied with the unit.

When the battery is dead, or replaced, error logs are all cleared.

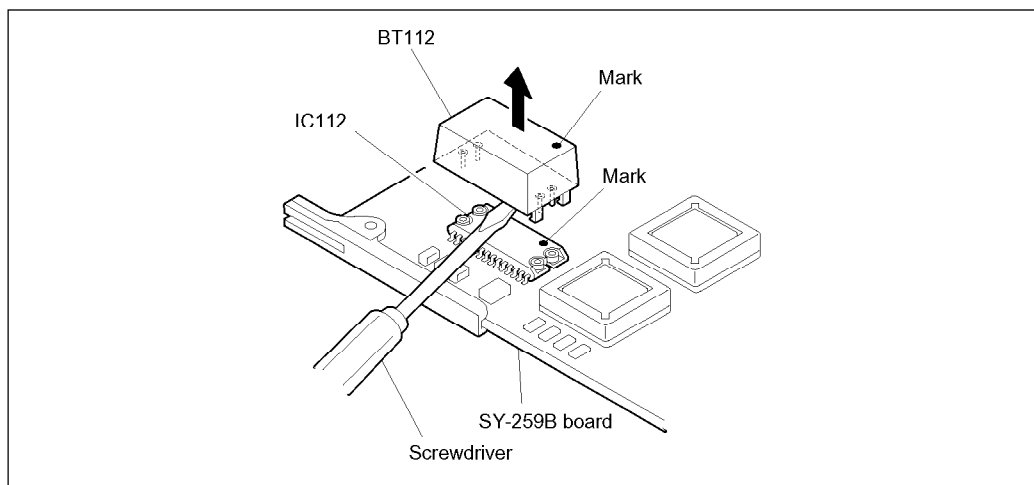
- Current menu
- Menu banks 1 to 4

Replacement

WARNING

When replacing the battery, ensure that a mark on the battery is correctly oriented as shown in the following figure. Improper connection may cause an explosion or leakage of fluid.

1. Pull the SY-259B board out. (Refer to Section 1-6-1.)
2. Insert a flat blade screwdriver between BT112 and IC112 to remove the battery.
3. Carefully install a new battery, ensuring that the mark's on the BT112 and IC112 are aligned.
4. Reset the current menu and menu banks. (Refer to the operation manual.)



1-14. Disconnecting/Reconnecting Flexible Card Wire

Three flexible card wires are used to connect between the MB-757A and SV-194A boards.

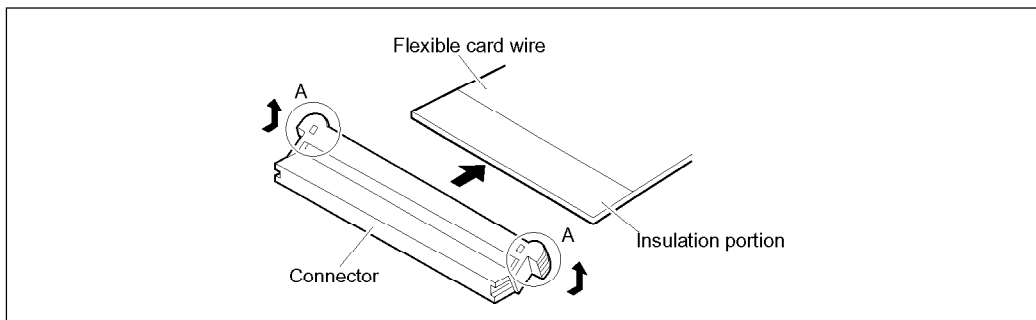
Notes

- Be sure to turn off the power when disconnecting and connecting the flexible card wire. To power off, be sure to disconnect the cable connected to the DC IN connector or the battery, in addition to turning off the power switch.
- The holded flexible card wire remarkably shortens the life span. Pay careful attention when handling it.

Disconnecting

Notes

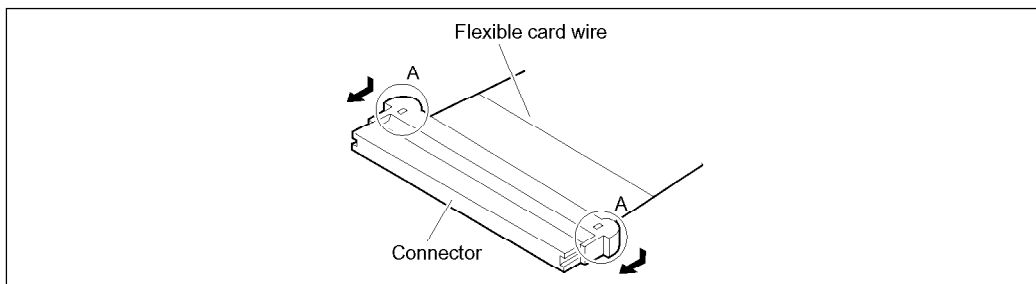
- Do not pull the flexible card wire before unlocking.
 - There are a conductive portion (printed side) and insulation portion (white belt) in the flexible card wire. Confirm the direction of the flexible card wire before connecting it.
1. Unlock by shifting portion A of the connector in the direction indicated by the arrow, then pull out the flexible card wire.



Reconnecting

Notes

- Ensure that no stain or dust adheres on the conductive surface of the flexible card wire.
 - Ensure that the connector is unlocked.
1. Insert the flexible card wire firmly as far as it will go.
 2. Press in the portion A of the connector in the direction indicated by the arrow to lock the connector. At that time, take care that the flexible card wire is not inclined.



1-15. NV-RAM/EEPROM

Describes ICs that require the initialization and adjustment of data after replacing itself.

Board name	Ref. No.	Address	IC type	Description
EQ-72	IC703	C2 (Side A)	NV-RAM	EQ board adjustment data
DEC-97	IC34	C3 (Side A)	EEPROM	DEC board adjustment data
DM-114/114P	IC909	M7 (Side A)	NV-RAM	DM board adjustment data
	IC1812	C6 (Side A)	NV-RAM	
VFD Assembly	U23	—	EEPROM	Sub menu data
SDI-23	IC457	E1 (Side A)	EEPROM	SDI board adjustment data
SV-194A	IC403	D8 (Side A)	NV-RAM	Servo data and hours meter data
SW-21	IC20	D1 (Side A)	EEPROM	SW-21 board adjustment data
SY-259B	IC112	E2 (Side A)	NV-RAM	Main menu set data
TG-191	IC406	C4 (Side A)	EEPROM	TG board adjustment data

1-15-1. Initialization and Adjustment

Explains how to initialize and adjust the data when adjustment and set data items are lost during IC replacement.

1. IC703 on EQ-72 board

- (1) Perform the automatic adjustment using the A17: A11-A16 ALL ADJUST menu of the maintenance mode.
(For the adjustment, refer to Section 3.)
- (2) Set initialize value to A30: EQ VR of the maintenance mode, then adjust it.
(For the setting and adjustment, refer to Section 3.)

2. IC34 on DEC-97 board

- (1) Adjust all menu items of the maintenance mode below.
(For the adjustment, refer to Section 3.)
 - A24: INPUT CF DETECT
 - A25: DEC VR or A26: DEC VR (LOOP)

3. IC909 and IC1812 on DM-114/114P board

- IC909

- (1) Set initial values to all menu items of the maintenance mode below, then adjust them.
(For the setting and adjustment, refer to Section 3.)
 - A32: DM VR1
 - A33: DM VR2
 - A34: DM VR3
 - A35: DM VR4
 - A36: DM VR5

- IC1812

- (1) Set initial values to all A37: TBC VR menu items of the maintenance mode, then adjust them.
(For the setting and adjustment, refer to Section 3.)

4. U23 on VFD assembly

- (1) Set the sub menu data again.
(For the setting, refer to Section 6 of the operation manual.)

5. IC457 on SDI-23 board

- (1) Adjust all A23: SDI VR menu items of the maintenance mode automatically.
(For the adjustment, refer to Section 3.)
 - A231: SDI ENC VCO
 - A232: SDI DEC VCO
 - A2F: NV-RAM CONTROL



6. IC403 on SV-194A board

- Servo adjustment data

- (1) Turn on the power while pressing S101 on the SV-194A board and initialize the servo adjustment data.
- (2) Adjust all A0: SERVO ADJUST menu items of the maintenance mode.
(For the adjustment, refer to Section 3.)
 - A001: S REEL FG DUTY
 - A002: CAPSTAN FG DUTY
 - A003: CAPSTAN FRICTION
 - A004: CAPSTAN FREE SPEED
 - A005: RF SWITCHING POS.
 - A006: NV-RAM CONTROL

- Hours meter data

- (1) The hours meter data is automatically initialized to zero ("0"). The data cannot be restored.

7. IC20 on SW-21 board

- Set the initial value data of the reference voltage at the DC IN connector.
 - (1) Set the switch S10-2 on the SW-21 board to ON after turning off the power.
 - (2) Turn on the power again.
 - (3) Connect the external DC power supply to the DC IN connector on the connector panel, and set the input DC voltage at the DC IN connector to 13.00 V dc.

Note

To prevent the voltage drop caused by the connection cable length connected between the external DC power supply and DC IN connector, use the shorter connection cable as much as possible.

 - (4) Press the HOLD and MENU buttons on the front panel simultaneously about one second.
By this operation, the reference voltage adjustment at DC IN connector is performed automatically, and WARNING indicator lights up about five seconds.
 - When the adjustment is completed, the WARNING indicator lights off.
 - When the adjustment is failed, WARNING indicator blinks about one second interval. Perform step (4) again.
 - (5) Turn off the power.
 - (6) Turn the switch S10-2 on the SW-21 board back to OFF.
- Check of the initial reference voltage data setting
 - (1) Connect the external DC power supply to the DC IN connector, and then set the voltage to 13.00 V dc.
 - (2) Turn on the power.
 - (3) To display the F2 MENU, press the F2 button, and then press the PAGE button on the slide panel.
Then set the values for the following items. (Refer to the operation manual, Section 2-7-2 for details.)

BAT-END : 10.5

BAT-NE : 11.0
 - (4) Push the PAGE button to return the display to the home page.
 - (5) Down the DC voltage of the external DC power supply so that the 1/7 scale on the remaining battery power display blinks.
At this time, check that the input DC voltage at the DC IN connector on the connector panel meets the following specification.
Specification : 11.0 ± 0.1 V
 - (6) Turn off the power of the unit.

8. IC112 on SY-259B board

- (1) Set the setup menu data again.
(For the setting, refer to the operation manual.)

9. IC406 on TG-191 board

- (1) Adjust all A20: VPR/TG VR menu items of the maintenance mode.
(For the adjustment, refer to Section 3.)

1-16. PLCC IC Removal

Tool required

It is recommended that the tool below is used to remove the PLCC-type IC inserted into an IC socket. This tool can be used for IC whose number of pins is 20 to 124.

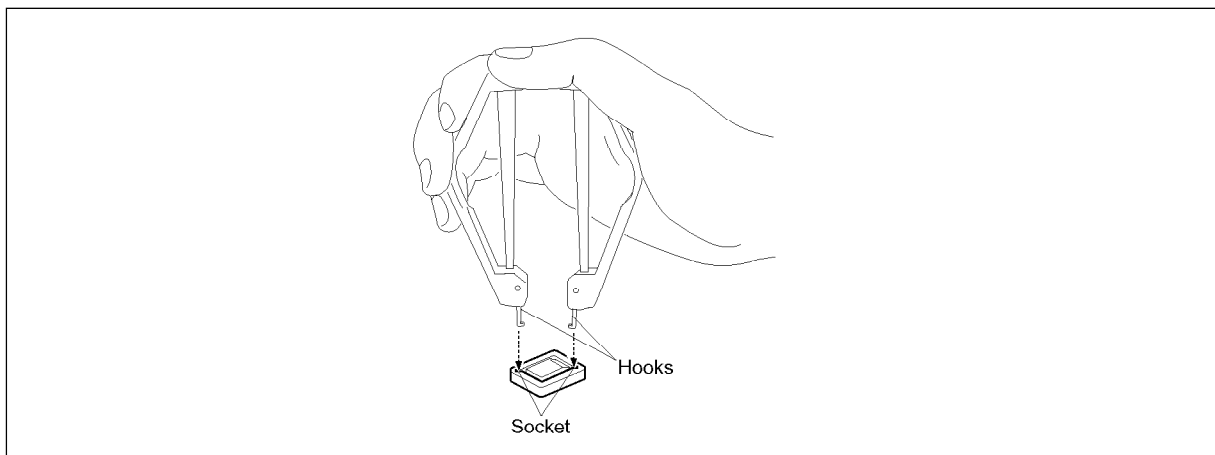
Extraction tool for PLCC socket
Sony part No.: J-6035-070-A

Procedure

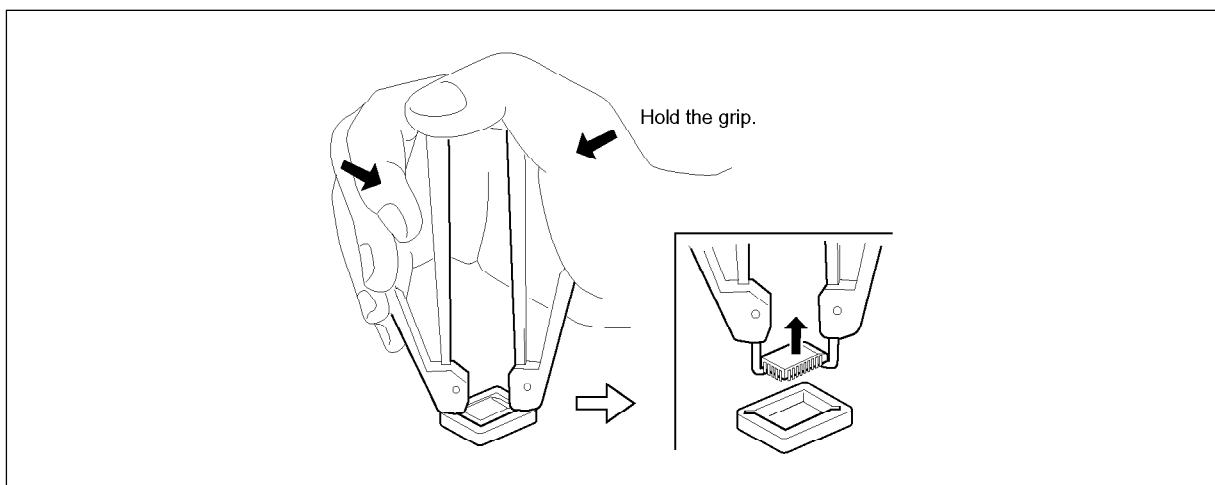
Notes

- Do not pull the IC chip upward using an extraction tool.
- Do not interpose the tool by excessive force.

1. Align the tool hook with the groove of an IC socket, then insert.



2. Hold the grip as shown in the figure and remove the PLCC IC.



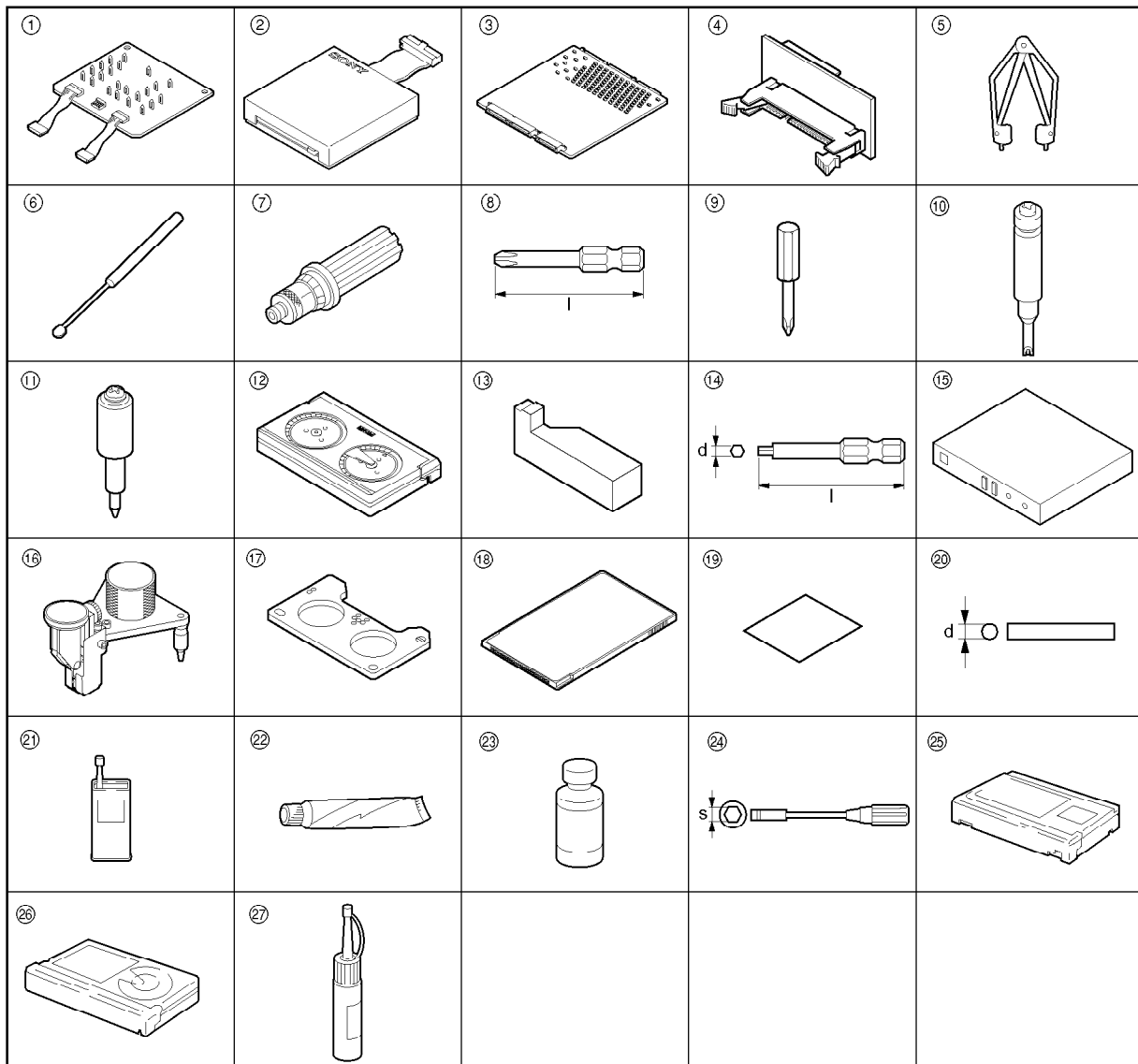
1-17. Fixtures and Adjustment Equipment

1-17-1. Fixtures

Fig.	Part No.	Name	For use
①	A-8317-304-A	HN-257 mounted circuit board	Tape path alignment
②	A-8319-485-A	IC memory card box, CDS-20 assembly	Software update
③	A-8321-000-A	Extension board (EX-706)	Extension of plug-in boards
④	A-8322-838-A	CN-1936 board	Connection of the IC memory card box
⑤	J-6035-070-A	Extraction tool (for PLCC socket)	Extraction of PLCC IC
⑥	J-6080-840-A	Inspection mirror	Tape curl check
⑦	J-6252-510-A	Torque screwdriver (6 kgf·cm) {0.6 N·m} [JB-5251]	Tightening screws
	J-6252-520-A	Torque screwdriver (12 kgf·cm) {1.2 N·m} [JB-5252]	Tightening screws
	J-6325-400-A	Torque screwdriver (3 kgf·cm)	Tightening screws (for M1.4 and M2 bit)
⑧	J-6325-110-A	Torque screwdriver bit (for M1.4)	Tightening screws on mech. deck (l = 75 mm)
	J-6323-420-A	Torque screwdriver bit (+2 mm, Cl = 75 mm)	Tightening screws for brush/slip-ring assembly
⑨	J-6325-380-A	Torque screwdriver bit (for M2)	Tightening screws on drum, capstan, reel motor and boards (l = 162 mm)
⑩	J-6322-420-A	Tape guide adjustment driver (45)	Tape guide adjustment
⑪	J-6323-530-A	Stop washer fastening tool	Installation of stop washer
⑫	J-6323-890-A	Torque cassette (FWD BACK TEN.) [MW-389]	FWD back tension REV back tension measurement
⑬	J-6324-150-A	Reel table height adjustment tool [MW-415]	Reel height check
⑭	J-6326-120-A	Hexagon bit (for torque driver)	Tightening screws on mech. deck for installation and removing (d = 1.5 mm, l = 85 mm)
⑮	J-6332-240-A	VISC phase adjusting tool	VISC alignment for PAL system (for DNW-A28P only)
⑯	J-6530-650-A	Head tip protrusion measurement tool	Head tip protrusion check of the video head
⑰	J-7032-610-A	Cassette reference plate	Reel height adjustment
⑱	1-772-004-11	IC memory card (4 MB, MB98A81273)	Software update
⑲	3-184-527-01	Cleaning cloth (15 cm × 15 cm)	Cleaning
⑳	3-649-266-01	Parallel pin (d = 1.6 mm)	Fixing position of cam gear
	3-703-358-04	Parallel pin (d = 2.0 mm)	Fixing position of threading gear/drawing arm when installing
㉑	7-132-114-11	Screw locking compound (200g)	Inhibit loosening screws
㉒	7-651-000-10	Sony grease SGL-601 (50 g)	
	7-651-000-11	Sony grease SGL-801 (50 g)	
	7-651-000-59	Grease (PG-662)	
㉓	7-661-018-18	Diamond oil NT-68 (50 ml)	
㉔	7-700-751-01	Nut driver (s = 4.5 mm)	CTL/AT head height adjustment
㉕	8-960-075-01	Alignment tape, SR5-1	Video/audio alignment (for 525/60 system)
	8-960-075-11	Alignment tape, SR2-1	Servo alignment (for 525/60 system)
	8-960-075-51	Alignment tape, SR5-1P	Video/audio alignment (for 625/50 system)
	8-960-075-61	Alignment tape, SR2-1P	Servo alignment (for 625/50 system)

Fig.	Part No.	Name	For use
②⑥	8-960-096-01	Alignment tape, CR2-1B	Tracking alignment (for analog Betacam, NTSC)
	8-960-096-41	Alignment tape, CR5-1B (METAL)	Video alignment (for analog Betacam, NTSC)
	8-960-096-51	Alignment tape, CR2-1B PS	Tracking alignment (for analog Betacam, PAL)
	8-960-096-86	Alignment tape, CR8-1B PS (METAL)	Audio alignment (for analog Betacam, PAL)
	8-960-096-91	Alignment tape, CR5-1B PS (METAL)	Video alignment (for analog Betacam, PAL)
	8-960-097-44	Alignment tape, CR5-2A (OXIDE)	Video alignment (for analog Betacam, NTSC)
	8-960-097-45	Alignment tape, CR8-1A (OXIDE)	Audio alignment (for analog Betacam, NTSC)
	8-960-098-44	Alignment tape, CR5-2A PS (OXIDE)	Video alignment (for analog Betacam, PAL)
	8-960-098-45	Alignment tape, CR8-1A PS (OXIDE)	Audio alignment (for analog Betacam, PAL)
②⑦	9-919-573-01	Cleanng	Cleaning

Refer to "1-18. Alignment Tape" for details of the alignment tape.



1-17-2. Equipment for Adjustment

It is recommended to use the equipment listed below or the equivalents.

Each equipment is available as standard products.

Equipment	Model name	Remarks
Serial digital component video signal generator	Tektronix TSG-422-OP.1S	for generating 4:2:2 format digital signal
Analog composite video signal generator	Tektronix TSG-170A	for 525/60 system
	Tektronix TSG-271A	for 625/50 system
Serial digital component monitor	Tektronix WFM601	
Analog composite waveform / vector monitor	Tektronix 1750 or 1780R	for measuring analog composite signal for 525/60 system
	Tektronix 1751 or 1781R	for measuring analog composite signal for 625/50 system
Oscilloscope	Tektronix 2465B	
Analog component waveform monitor	Tektronix WFM300	for video phase adjustment
Spectrum analyzer	Advantest R3261A	with external trigger function bandwidth: more than 100 MHz
Network analyzer	Anritsu MS420B	
Audio signal generator	Tektronix SG505-OP.02	
Audio analyzer	Tektronix AA501A-OP.02	for measuring distortion and levels
Audio level meter	Hewlett-Packard HP3400A	
Digital voltmeter	Advantest TR6845	
Monitor with serial digital input	Sony BVM-1311 (with optional accessory BKM-2085-14)	for DNW-A28
	Sony BVM-1411 (with optional accessory BKM-2085-14)	for DNW-A28P
Composite video monitor	Sony BVM-14F5U or BVM-14F5E *1	
	OP. BKM-24N OP. BKM-25P	for 525/60 system for 625/50 system
Terminator	75 Ω BNC type	
Recording tape	Sony Betacam SX tape (BCT-62SXA etc.)	

* : Use the composite video monitor that is applicable to the place in the world.

1-18. Alignment Tape

Describes the alignment tapes using for adjusting the unit.

1. SR5-1 (SONY part No. 8-960-075-01): For 525/60 system

SR5-1P (SONY part No. 8-960-075-51): For 625/50 system

Used for video/audio adjustment.

Time (min. : sec.)	Digital video	Digital audio	CTL track
0:00 -	100% color-bars	1 kHz sine wave, -20 dB FS	CTL
2:00 -	100% color-bars	1 kHz sine wave, 0 dB FS	CTL
4:00 -	100% color-bars	-∞ dB FS	CTL
6:00 -	100% color-bars	20 Hz sine wave, -20 dB FS	CTL
8:00 -	100% color-bars	20 kHz sine wave, -20 dB FS	CTL
10:00 -	Ramp	1 kHz sine wave, -20 dB FS	CTL
12:00 -	Ramp	1 kHz sine wave, 0 dB FS	CTL
14:00 -	Ramp	-∞ dB FS	CTL
16:00 -	Ramp	20 Hz sine wave, -20 dB FS	CTL
18:00 -	Ramp	20 kHz sine wave, -20 dB FS	CTL
20:00 -	100% color-bars	1 kHz sine wave, -20 dB FS	CTL
22:00 -	100% color-bars	1 kHz sine wave, 0 dB FS	CTL
24:00 -	100% color-bars	-∞ dB FS	CTL
26:00 -	100% color-bars	20 Hz sine wave, -20 dB FS	CTL
28:00 - 30:00	100% color-bars	20 kHz sine wave, -20 dB FS	CTL

2. SR2-1 (SONY part No. 8-960-075-11) :For 525/60 system

SR2-1P (SONY part No. 8-960-075-61) :For 625/50 system

Used for servo adjustment.

Time (min. : sec.)	Digital video	Digital audio	CTL track
00:00- (Pulse*)	3.212 MHz (A CH only)	SR2-1: 3 kHz, 0 VU SR2-1P: 3.15 kHz, 0 VU	CTL
15:00 -	A CH : 3.212 MHz B CH : 6.424 MHz	SR2-1: 3 kHz, 0 VU SR2-1P: 3.15 kHz, 0 VU	CTL
20:00 -	12.848 MHz (All CH)	SR2-1: 3 kHz, 0 VU SR2-1P: 3.15 kHz, 0 VU	CTL
25:00 - 27:00	100 % Color Bars. (All CH)	No signal	CTL

* When the pulse portion (00:00 to 15:00) is played back, the displayed TC data is interpolated by CTL signal due to no recording on the time code track.

3. CR2-1B (SONY part No. 8-960-096-01) : For analog Betacam, NTSC

CR2-1B PS (SONY part No. 8-960-096-51) : For analog Betacam, PAL

Used for tracking adjustment.

Time (min. : sec.)	Video Track	AFM	LTC track	CTL track
00:00 -28:00	Y : 4 MHz C : 5 MHz	—	7: 3 pulse	CTL

* The displayed TC data is interpolated by CTL signal due to the duty 7:3 pulse is recorded on the time code track.

4. CR5-1B (SONY part No. 8-960-096-41): For analog Betacam, NTSC**CR5-1B PS (SONY part No. 8-960-096-91): For analog Betacam, PAL**

Used for Betacam video/audio adjustment.

Time (min. : sec.)	Video	AFM*	LAU tracks	CTL track
0:00 -	RF sweep No signal	No signal	No signal	CTL
2:00 -	60 % H sweep (CTDM)	No signal	No signal	CTL
5:00 -	Pulse & Bar (CTDM)	No signal	No signal	CTL
8:00 -	60 % multi-burst	No signal	No signal	CTL
11:00 -	Pulse & Bar No signal	No signal	No signal	CTL
14:00 -	CR5-1B: 75 % color-bar CR5-1B PS: 100 % color-bar	400 kHz sine wave with 25 kHz deviation	No signal	CTL
16:30 -	CR5-1B: 75 % color-bar CR5-1B PS: 100 % color-bar	400 kHz sine wave with 75 kHz deviation	No signal	CTL
17:00 -	CR5-1B: 50 % bowtie & 12.5T CR5-1B PS: 50 % bowtie & 10T	No signal	No signal	CTL
19:00 -	Line 17	No signal	No signal	CTL
22:00 -	Quad phase	No signal	No signal	CTL
24:00 -	Flat filed	No signal	No signal	CTL
26:00 -	CR5-1B: 75 % color-bar with Drop-out CR5-1B PS: 100 % color-bar with Drop-out	No signal	No signal	CTL
28:00 - 30:00	Composite V sweep with VISC	No signal	No signal	CTL

5. CR5-2A (SONY part No. 8-960-097-44): For analog Betacam, NTSC**CR5-2A PS (SONY part No. 8-960-098-44): For analog Betacam, PAL**

Used for Betacam video adjustment.

Time (min. : sec.)	Video	LAU tracks	CTL track
0:00 -	75 % color-bar	No signal	CTL
3:00 -	60 % multi-burst	No signal	CTL
6:00 -	CR5-2A: 50 % bowtie & 12.5T CR5-2A PS: 50 % bowtie & 10T	No signal	CTL
9:00 -	Pulse & Bar	No signal	CTL
11:00 -	Quad phase	No signal	CTL
13:00 - 15:00	Composite monoscope (Switching position is shifted.)	No signal	CTL

6. CR8-1A (SONY part No. 8-960-097-45): For analog Betacam, NTSC**CR8-1A PS (SONY part No. 8-960-098-45): For analog Betacam, PAL**

Used for Betacam audio adjustment.

Time (min. : sec.)	LAU tracks	CTL track	Video
0:00 -	1 kHz sine wave, 0 VU	CTL	No signal
2:55 -	No signal	CTL	No signal
3:00 -	10 kHz sine wave, -10 VU	CTL	No signal
4:55 -	No signal	CTL	No signal
5:00 -	1 kHz sine wave, -20 VU	CTL	No signal
5:55 -	No signal	CTL	No signal
6:00 -	40 Hz sine wave, -20 VU	CTL	No signal
6:25 -	No signal	CTL	No signal
6:30 -	7 kHz sine wave, -20 VU	CTL	No signal
6:55 -	No signal	CTL	No signal
7:00 -	10 kHz sine wave, -20 VU	CTL	No signal
7:25 -	No signal	CTL	No signal
7:30 -	15 kHz sine wave, -20 VU	CTL	No signal
7:55 -	No signal	CTL	No signal
8:00 - 10:00	1 kHz sine wave, 0 VU	1 kHz sine wave, 0 VU	No signal

7. CR8-1B PS (SONY part No. 8-960-096-86): For analog Betacam, PAL

Used for Betacam audio adjustment.

Time (min. : sec.)	LAU tracks	CTL track	Video	AFM
0:00 -	1 kHz sine wave, 0 VU	CTL	No signal	No signal
2:55 -	No signal	CTL	No signal	No signal
3:00 -	15 kHz sine wave, 0 VU	CTL	No signal	No signal
4:55 -	No signal	CTL	No signal	No signal
5:00 -	1 kHz sine wave, -20 VU	CTL	No signal	No signal
5:55 -	No signal	CTL	No signal	No signal
6:00 -	40 Hz sine wave, -20 VU	CTL	No signal	No signal
6:25 -	No signal	CTL	No signal	No signal
6:30 -	7 kHz sine wave, -20 VU	CTL	No signal	No signal
6:55 -	No signal	CTL	No signal	No signal
7:00 -	10 kHz sine wave, -20 VU	CTL	No signal	No signal
7:25 -	No signal	CTL	No signal	No signal
7:30 -	15 kHz sine wave, -20 VU	CTL	No signal	No signal
7:55 - 8:00	No signal	CTL	No signal	No signal

1-19-2. F-Series items

ITEM		DATA		Description
No.	ITEM	No.	DATA	
F01	AUDIO NR IN SP MODE	ON 1	<input type="checkbox"/> on switch select	<p>Note</p> <p>This item is used exclusively for analog Betacam longitudinal audio playback adjustment for 625/50 system After adjustment is completed, return to the factory setting "ON(on)"</p> <p>Turns on and off the Dolby NR when using a metal tape ON: Dolby NR is turned on usually 1: Dolby NR is turned on and off depending on the setting of the sub menu (in Audio setting page)</p> <p>Note</p> <p>When using an oxide tape, follows the sub menu setting regardless of the above setting</p>
F02	EMERGENCY TAPE PROTECTION	ENA DIS	<input type="checkbox"/> enable disable	<p>Note</p> <p>This item is used exclusively for servo and mechanical adjustment After adjustment is completed, return to the factory setting "ENA (enable)"</p> <p>Selects whether emergency tape protection operation is enabled or not when VTR detects error in tape transport mechanism ENA: Tape protection operation is enabled DIS: Tape protection operation is disabled</p>
F13	TRACKING CONTROL VIA SEARCH DIAL	OFF ON	<input type="checkbox"/> off on	<p>Note</p> <p>This item is used exclusively for video tracking adjustment After adjustment is completed, return to the factory setting "OFF (off)"</p> <p>Turns on and off the tracking control operation with JOG dial OFF: Tracking control with JOG dial is not activated ON: Tracking control becomes active when turning JOG dial in PLAY mode</p>
F16	DEVICE TYPE NO MODIFY:0H	0 1 FFFF	<input type="text"/> 0 1 FFFF	<p>Determines response data to 9-pin remote command DEVICE TYPE REQUEST (00h, 11h) 0: Returns the original device type data of the unit Except 0: Returns the set values as they are: The higher-order two digits are for DATA-1 The lower-order two digits are for DATA-2</p> <p>Note</p> <p>Any selection of the above does not influence the whole VTR operation in DNW-A28 If this item is set to values other than the factory-setting (DATA:0000), the operation of the unit is not ensured under the 9-pin remote command control.</p>
F21	PROCESS CONT VR LOCAL ENABLE	OFF ON	<input type="checkbox"/> off on	<p>Selects whether sub menu setting (in Video setting page) is enabled or not, when LOCAL DISABLE command is received through the 9-pin remote connector or the setup menu "006: LOCAL FUNCTION ENABLE" is set to "all disable" OFF: Settings of sub menu is disabled ON: Settings of sub menu is enabled</p>

1-19-3. Switching between 525/625 Line Systems (Menu Item 013)

In this section, describes the 525 or 625 line system selection method.

Note

To display the menu item on the video monitor connected to the VIDEO OUTPUT 2 (SUPER) connector on the connector panel, set the unit as follows;

- (1) To display the F2 MENU, press the F2 button, and then press the PAGE button on the slide panel.
- (2) Set the "SUPER" on the sub menu to MENU, and push the MENU button.

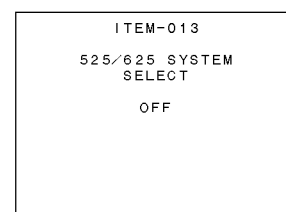
525/625 line system selection

Note

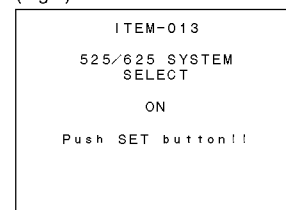
Fig.1 to Fig.5 are the examples of the video monitor indication for the system selection from 525 to 625.

1. Turn the JOG dial, and select the basic menu item 013.
2. Push the JOG dial. (Fig.1)
3. Turn the JOG dial to change the setting from OFF to ON, then push the JOG dial. (Fig.2)
4. Push the SET button. (Fig. 3)
5. Turn the JOG dial to change the setting 525 or 625, and then push the JOG dial. (Fig. 4)
6. Push the SET button. (Fig.5)
7. Turn off the power switch, and then turn it back to on.

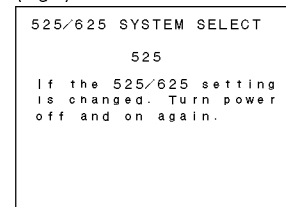
(Fig.1)



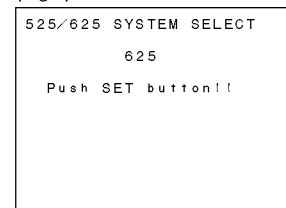
(Fig.2)



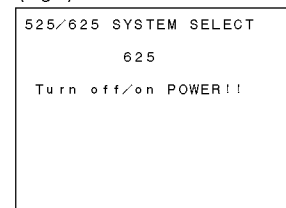
(Fig.3)



(Fig.4)



(Fig.5)



Section 2

Error Messages

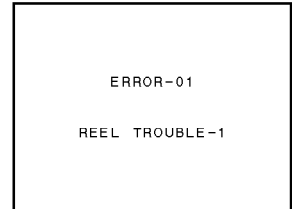
2-1. Overview of Error Messages

This unit has self-diagnostics function.

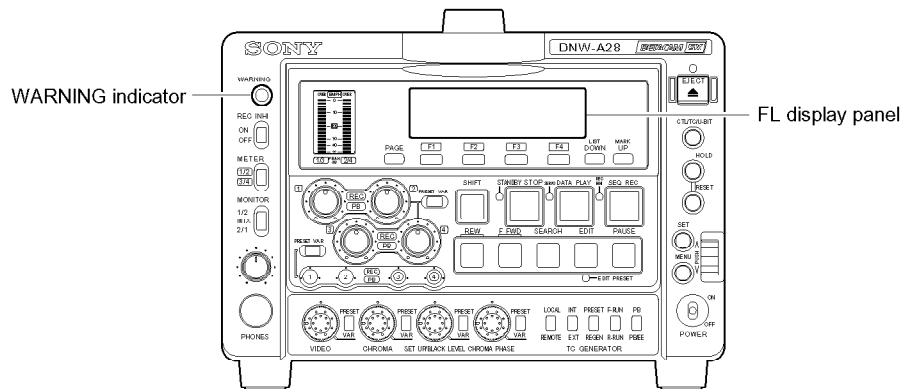
When trouble is detected, an WARNING indicator at the left side of the front panel is lighted immediately, and an error message is displayed on the FL display panel. Also, an error code and error message are superimposed on the video monitor connected to the VIDEO OUTPUT 2 (SUPER) connector. Furthermore, as for the some error codes, object which error occurred is displayed as sub error message on the video monitor.

Notes

- To superimpose the error message on the video monitor, set the SUPER item to ON by using the general setting page of the sub menu. (For sub menu, refer to the operation manual.)
- There are the error messages without error code. These messages are only displayed on the FL display panel.
- The error messages with error code are memorized to NV-RAM (Non-volatile RAM) as the error logging data. (Refer to Section 3 for the error logging data.)
- The messages on the FL display panel differ from the messages which are superimposed on the video monitor in some items.



A sample of Superimposed Video Monitor



FL display panel and WARNING Indicator

Error messages are described on Section 2-2 in the order of list.

Error List

Code	FL display panel	Page	Description
01	REEL TROUBLE	2-4	Tape slacking is detected in the unthreading operation.
02	REEL TROUBLE	2-5	Tape slacking or tape breaking is detected in the SEARCH, FF, or REW mode.
03	REEL TROUBLE	2-6	Tape slacking, or tape breaking is detected in the REC or PLAY mode.
04	REEL TROUBLE	2-7	An malfunctional tape transport speed is detected in the FF or REW mode.
06	TAPE TENSION	2-7	Excessive tape tension is detected in the REC or PLAY mode.
07	CAPSTAN TROUBLE	2-8	Abnormal capstan motor rotation speed was detected in the REC, PLAY, SEARCH, or REW mode. Malfunction of capstan F-G was detected in the REC or PLAY mode.
08	DRUM TROUBLE	2-8	Malfunction of drum motor is detected.
09	TH/UNTH MOTOR	2-9	Malfunction of threading or unthreading operation is detected.
10	HUMID	2-9	Dew condensation is detected.
12	TAPE TOP SENSOR	2-10	Malfunction of tape top sensor is detected.
13	TAPE END SENSOR	2-10	Malfunction of tape end sensor was detected.
14	FAN MOTOR	2-11	Malfunction of cooling fan motor is detected.
40	DPR-87 BOARD 1	2-11	The abnormal operation of IC on DPR-87 board was detected.
43	DPR-87 BOARD 4	2-12	The abnormal operation of IC (SDRAM) on DPR-87 board was detected.
92	INTERNAL I/F 1	2-12	Abnormality in the interface between SYS1 CPU (on SY-259B board) and other CPU/MPU is detected.
93	CPU INITIALIZE	2-13	Abnormality was detected in the communication between SERVO CPU (SV-194A board) and DRUM MICOM (SV-194A board).
96	SY NV-RAM ERROR	2-13	The abnormal operation of an NV-RAM (on SY-259B board) for the system control system is detected.
97	SV NV-RAM	2-14	The abnormal operation of an NV-RAM (on SV-194A board) for the servo system is detected.
98	RF NV-RAM ERROR	2-14	The abnormal operation of an NV-RAM (on EQ-72, or DM-114/114P board) for the RF system is detected.
99	INTERNAL I/F 2	2-15	Abnormality in the interface between SYS2 CPU (on SY-260 board) and SERVO CPU (on SV-194A board) or MPU (on EQ-72, DM-114/114P, or SDI-23 board) is detected.

Notes

- Error codes 01 through 13 detect in the SV-194A board.
Error code 14 detects in the SY-259B board.
Error codes 40 through 43 detect in the SY-260 board.
Error codes 92 through 99 detect in the SY-259B and/or SY-260 board.
- There are two error groups of error codes: VTR and OTHERS. If errors occur in multiple error groups, the error message of each group are switched at two-second intervals.
Also, if multiple errors occur in error group, the priority level of each group display are as follows:
VTR: 97, 02, 03, 04, 07, 06, 01, 09, 08, 10, 12, 13, 14
OTHERS: 92, 96, 98, 99, 93, 40, 43

2-2. Details of Error Messages

CAUTION

The “protection mode” described in this section means the servo control system automatically stops the tape transport and drum motor rotation, and maintains this state. The DNW cannot be automatically recovered to the normal state when the DNW once enters the protection mode. Be sure to turn the power on again under the absence of the cassette tape.

If the protection mode is entered with the cassette tape inserted, take out the cassette tape manually with reference to “1-10. How to Take Out the Cassette whose Tape is Slacked”. Never turn the power on again before taking out the cassette tape. This may damage the tape.

Note

The messages on the FL display panel differ from the messages which are superimposed on the video monitor in some items. In this section, each message indicates as following example.

**Ex. : ERROR-09 TH/UNTH MOTOR TIME OUT
(TH/UNTH MOTOR)**

↑
Message on FL display panel

↑
Message superimposed on video monitor

ERROR-01 REEL TROUBLE - 1 **(REEL TROUBLE)**

Description : Tape slacking was detected during unthreading.

Detecting conditions : When no take-up reel FG can be detected in the unthread operation.

Sub error message : None

Possible causes :

- Cassette compartment trouble or installation defect
 - * The reel did not rotate because the cassette was lifted-up from the specified position.
- FG sensor trouble in take-up reel
- Take-up reel FG waveform shaper circuit (SV-194A board) trouble
- Take-up reel brake trouble
- Harness disconnection
- Take-up reel table height adjustment defect

Protecting operation : Enters the protection mode.

CAUTION

Be sure to take out the cassette manually (refer to Section 1-10). Do not turn the power on again before taking out the cassette. This may damage the tape.

ERROR-02 REEL TROUBLE - 2 (REEL TROUBLE)

Description :	Tape slacking or tape breaking was detected in SEARCH, FF, or REW mode.
Detecting conditions :	<ol style="list-style-type: none"> 1) When the take-up value is lower than the specified value with respect to the tape supply value. 2) When the detect voltage of the supply tension sensor is lower than the specification continuously for some seconds. 3) When the supply reel and take-up reel do not coincide in rotation direction continuously for more than five seconds.
Sub error message :	None
Possible causes :	<ul style="list-style-type: none"> • Cassette compartment trouble or installation defect <ul style="list-style-type: none"> * The reel did not rotate because the cassette was lifted-up from the specified position. • FG sensor trouble in supply reel motor or take-up reel • Supply reel FG waveform shaper circuit (SV-194A board) trouble • Supply or take-up reel motor trouble • Supply reel motor drive circuit (SV-194A board) trouble • Capstan motor trouble • Capstan motor drive circuit (SV-194A board) trouble • Capstan FG waveform shaper circuit (SV-194A board) trouble • Take-up torque insufficiency during REW due to supply tension sensor or supply tension detect circuit (SR-65 board) trouble • Servo adjustment defect on capstan, reel, and supply tension sensor • Supply reel brake trouble • Supply reel brake solenoid drive circuit (SV-194A board) trouble • Harness disconnection • Reel table height adjustment defect • Tape path and drum troubles • Tape abnormality (The winding state has a problem.)
Protecting operation :	<p>Enters the protection mode. The normal state may be returned after the protection mode is entered at the end of the tape.</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">CAUTION</div> <p>Be sure to take out the cassette manually (refer to Section 1-10). Do not turn on the power again before taking out the cassette. This may damage the tape.</p>

ERROR-03 REEL TROUBLE - 3 (REEL TROUBLE)

Description : Tape slacking, or tape breaking was detected in the REC or PLAY mode.

Detecting conditions :

- 1) When the take-up value is lower than the specified value with respect to the tape supply value.
- 2) When the tension value calculated from the supply tension sensor output is less than 15 g continuously for more than three seconds.
- 3) When the supply reel and take-up reel do not coincide in rotation direction continuously for more than five seconds.

Sub error message : None

Possible causes :

- Cassette compartment trouble or installation defect
 - ※ The reel did not rotate because the cassette was lifted-up from the specified position.
- FG sensor trouble in supply reel motor or take-up reel
- Supply or take-up reel FG waveform shaper circuit (SV-194A board) trouble
- Supply reel motor trouble
- Supply reel motor drive circuit (SV-194A board) trouble
- Capstan motor trouble
- Capstan motor drive circuit (SV-194A board) trouble
- Capstan FG waveform shaper circuit (SV-194A board) trouble
- Servo adjustment defect on capstan, reel, and supply tension sensor
- Supply reel brake trouble
- Supply reel brake solenoid drive circuit (SV-194A board) trouble
- Harness disconnection
- Reel table height adjustment defect
- Tape path and drum troubles
- Tape abnormality (The winding state has a problem.)

Protecting operation : Stop the tape transport and enters the rest state.

CAUTION

Be sure to take out the cassette manually (refer to Section 1-10). Do not turn on the power again before taking out the cassette. This may damage the tape.

ERROR-04 REEL TROUBLE - 4
(REEL TROUBLE)

Description :	Abnormal tape transport speed was detected in the FF mode.
Detecting condition :	When the tape speed calculated from the supply reel FG and take-up reel FG is under a half of the specified tape speed continuously for more than ten seconds.
Sub error message :	None
Possible causes :	<ul style="list-style-type: none"> • Cassette compartment trouble or installation defect <ul style="list-style-type: none"> * The reel did not rotate because the cassette was lifted-up from the specified position. • FG sensor trouble in supply reel motor or take-up reel • Supply reel motor trouble • Supply or take-up reel FG waveform shaper circuit (SV-194A board) trouble • Supply reel motor drive circuit (SV-194A board) trouble • Servo adjustment defect on supply or take-up reel • Supply or take-up reel brake trouble • Supply reel brake solenoid drive circuit (SV-194A board) trouble • Harness disconnection • Reel table height adjustment defect • Tape path and drum troubles • Tape abnormality (The winding state has a problem.)
Protecting operation :	Stops the tape transport and enters the rest state.

ERROR-06 TAPE TENSION ERROR
(TAPE TENSION)

Description :	Excessive tension was detected in the REC or PLAY mode.
Detecting condition :	When the tension value calculated from supply tension sensor output is more than 55 g continuously for more than three seconds.
Sub error message :	None
Possible causes :	<ul style="list-style-type: none"> • Cassette compartment trouble or installation defect <ul style="list-style-type: none"> * The reel did not rotate because the cassette was lifted-up from the specified position. • Supply tension sensor or its related circuit (SV-194A board) trouble • Supply reel motor trouble • Supply reel motor drive circuit (SV-194A board) trouble • Servo adjustment defect on supply reel and supply tension sensor • Supply reel brake trouble • Supply reel brake solenoid drive circuit (SV-194A board) trouble • Harness disconnection
Protecting operation :	Stops the tape transport and enters the rest state.

ERROR-07 CAPSTAN TROUBLE (CAPSTAN TROUBLE)

- Description : Abnormal capstan motor rotation speed was detected in the REC, PLAY, SEARCH, or REW mode.
Malfunction of capstan FG was detected in the REC or PLAY mode.
- Detecting conditions : 1) When the capstan motor rotation speed is under a half of the specified speed continuously for more than four seconds.
2) When the frequency calculated from the capstan FG is out of the specification in the REC, or PLAY mode.
- Sub error message : None
- Possible causes :
- Capstan motor trouble
 - FG sensor trouble in capstan motor
 - Capstan motor drive circuit (SV-194A board) trouble
 - Capstan motor FG waveform shaper circuit (SV-194A board) trouble
 - Capstan FG duty adjustment defect
- Protecting operations : Stops the tape transport and enters the rest state.

ERROR-08 DRUM TROUBLE (DRUM TROUBLE)



- Description : Malfunction of drum motor was detected.
- Detecting condition : 1) When the drum FG is not detected for more than 0.2 seconds.
2) When the drum rotation speed is over 90 rotations per second, and this condition continues and accumulates about three seconds within ten seconds.
3) When the drum rotation speed is under the specified.
- Sub error message : None
- Possible causes :
- Drum motor trouble
 - Drum microcomputer (IC212 on SV-194A board) trouble
 - Drum motor drive circuit (SV-194A board) trouble
 - Drum FG/PG waveform shaper circuit (SV-194A board) trouble
 - Assembly defect during upper drum replacement
- Protecting operation : Stops the tape transport and enters the rest state.

**ERROR-09 TH/UNTH MOTOR TIMEOUT
(TH/UNTH MOTOR)**

- Description : Malfunction of threading or unthreading operation was detected.
- Detecting conditions : 1) When condition of the function cam sensors are not shifted more than four seconds in other status of threading end or unthreading end.
2) When the mode shift of the function cam sensors are abnormal state.
- Sub error message : None
- Possible causes :
 - Threading motor trouble
 - Threading motor drive circuit (SV-194A board) trouble
 - Threading mechanism trouble
 - Function cam sensor trouble
- Protecting operations : Enters the protection mode during tape threading/unthreading.
Stops the tape transport and enters the rest state in cases except the above.

**ERROR-10 HUMID
(HUMID)**

- Description : Dew condensation was detected.
- Detecting condition : When the condensation sensor detects dew condensation continuously for about two seconds.
- Sub error message : None
- Possible causes :
 - Actual dew detection (When the operating environment rapidly changes from low temperature to high temperature and high humidity)
 - Condensation sensor trouble
 - Dew input port (IC401 on SV-194A board) trouble
- Protecting operations : Stops the drum rotation or prohibits the rotation of drum.
Prohibits the cleaning roller operation.
Stops the tape transport and enters the rest state in the unthread end state when the tape is threaded in states other than PLAY and REC mode.
Prohibits the tape threading.

Note

When this sensor detects dew condensation once, the error message will be displayed for about 40 minutes even if a dry state is detected later.

**ERROR-12 TAPE TOP SENSOR TROUBLE
(TAPE TOP SENSOR)**

Description : Malfunction of tape top sensor was detected.

Detecting condition : When the tape top is detected continuously for more than seven seconds.

Sub error message : None

Possible causes :

- Tape top sensor trouble
- Tape top detection circuit (SV-194A board) trouble
- Tape top input port (IC116 on SV-194A board) trouble
- Harness disconnection
- The tape cannot move at the tape top due to troubles other than the tape sensor.

Protecting operations : Stops the tape transport and enters the rest state during tape transport.

**ERROR-13 TAPE END SENSOR TROUBLE
(TAPE END SENSOR)**

Description : Malfunction of tape end sensor was detected.

Detecting condition : When the tape end is detected continuously for more than seven seconds.

Sub error message : None

Possible causes :

- Tape end sensor trouble
- Tape end detection circuit (SV-194A board) trouble
- Tape end input port (IC116 on SV-194A board) trouble
- Harness disconnection
- The tape cannot move at the tape end due to troubles other than the tape sensor.

Protecting operations : Stops the tape transport and enters the rest state during tape transport.

ERROR-14 FAN MOTOR TROUBLE (FAN MOTOR)

Description : Malfunction of cooling fan motor was detected.

CAUTION

If this error occurred, stop immediately operation of the unit, and turn off the power.

If the unit uses continuously under the fan is stopped state, overheating inside the unit can cause a fire or a failure.

Detecting condition : When the fan motor FG frequency is less than 60% of the specified value.

Sub error message : None

Possible causes :

- Fan motor trouble
- Fan motor FG input port (SY-259B board) trouble
- Harness disconnection

Protecting operation : None

ERROR-40 DPR-87 BOARD ERROR 1 INITIALIZE CHECK (DPR-87 BOARD 1)

Description : The abnormal operation of IC on the DPR-87 board was detected.

Detecting condition : When turning on the power, the diagnostics of each IC detects abnormalities.

Sub error message :

- F-CONT
- DIGI FIL
- SX ENC
- SX MEP
- ECC ENC
- OUTER
- SX DEC

As for diagnostics of the DPR-87 board, refer to section 3-2-4 (menu number : C24).

Protecting operation : Displays only this error.

ERROR-43 DPR-87 BOARD ERROR 4 SDRAM CHECK (DPR-87 BOARD 4)

- Description : The abnormal operation of IC (SDRAM) on the DPR-87 board was detected.
- Detecting condition : When turning on the power or shifting the operation mode, the diagnostics of each IC detects abnormalities.
- Sub error message : SX ENC
SX MEP
SX DEC
- As for diagnostics of the DPR-87 board, refer to Section 3-2-4 (menu number : C24).
- Protecting operation : Displays only this error.

ERROR-92 INTERNAL INTERFACE ERROR 1 (INTERNAL I/F 1)

- Description : Abnormality was detected in the communication between SYS1 CPU (IC106 on SY-259B board) and other CPU/MPU.
- Sub error messages and Detecting conditions:
- SY2** : When the SYS2 CPU (IC108 on SY-260 board) initialization at turn on the power is in abnormal state.
 - KY** : When the communication with MPU (U30 on VFD assembly) is in abnormal state.
 - DP** : When the communication with MPU (IC11 on SW-21 board) is in abnormal state.
- Possible causes :
- SY2** :
 - DIP switch (S201 on SY-260 board) setting defect
 - Common RAM (IC400 on SY-259B board) or I/F bus circuit (IC402 through IC404) trouble
 - System control system (IC451 through IC455 on SY-260 board) trouble
 - KY** :
 - Cable (between SW-21 board and VFD assembly) connection defect or disconnection
 - Interface circuit (IC206 on SY-259B board) trouble
 - Line receiver/transceiver (U21 on VFD assembly) trouble
 - VFD assembly's MPU (U30) trouble
 - Cable (between MB-757A board and SW-21 board) connection defect or disconnection
 - DP** :
 - Cable (between MB-757A board and SW-21 board) connection defect or disconnection
 - Interface circuit (IC209, IC307 and IC308 on SY-259B board) trouble
 - VFD assembly's MPU (U30) trouble
 - SW-21 board's MPU (IC11) trouble
- Protecting operations : When the sub error message is “**SY2**”, enters the protection mode.
When it is except above, displays only this error.

ERROR-93 INITIALIZE ERROR (CPU INITIALIZE)

- Description : Abnormality was detected in the communication between SERVO CPU (IC103 on SV-194A board) and DRUM MICOM (IC212 on SV-194A board).
- Detecting condition : When turning on the power or during operation, communication error was detected.
- Sub error message and detecting condition :
DRUM : When the communication with DRUM MICOM (IC212 on SV-194A board) is in abnormal state.
- Possible causes :
- MICOM control interface circuit (IC100 and IC108 on SY-259B board) trouble
 - DRUM MICOM (IC212 on SV-194A board) trouble
- Protecting operation : Displays only this error.

ERROR-96 SY NV-RAM ERROR (SY NV-RAM ERROR)

- Description : The operation error of an NV-RAM (IC112 on SY-259B board) for the system control system was detected.
- Sub error messages and Detecting conditions :
- CURRENT SETUP** : When the data error occurs in the setup menu current memory area during the data write or read .
- SETUP BANK1** : When the data error occurs in the setup menu bank 1 memory area during the data write or read.
- SETUP BANK2** : When the data error occurs in the setup menu bank 2 memory area during the data write or read.
- SETUP BANK3** : When the data error occurs in the setup menu bank 3 memory area during the data write or read.
- SETUP BANK4** : When the data error occurs in the setup menu bank 4 memory area during the data write or read.
- ID CODE** : When the data error occurs in the ID code memory area during the data write or read.
- CALENDAR CLOCK** : When the calendar/clock function was stopped.
- Possible causes :
- NV-RAM (IC112 on SY-259B board) trouble
 - Address decoder (IC117 on SY-259B board) trouble
 - Backup battery inside NV-RAM is out of life
- Protecting operations :
- When the error occurs in setting data of the setup menu, resets those data to the factory settings.
- When the error occurs in ID data, resets the data to 00 00 00 00.
- When the error occurs at the calendar/clock function, resets the date and time data to '96 11 01 00 00 00 (Year, Month, Day, Hour, Minute, Second).

**ERROR-97 SV NV-RAM ERROR
(SV NV-RAM)**

Description : The operation error of an NV-RAM (SV-194A board) for the servo system was detected.

Detecting condition : When the checksum of NV-RAM data does not coincide during activation.

Sub error message : None

Possible cause : NV-RAM (IC114 on SV-194A board) trouble

Protecting operation : Enters the protection mode

**ERROR-98 RF NV-RAM ERROR
(RF NV-RAM ERROR)**

Description : The operation error of an NV-RAM (EQ-72 or DM-114/114P board) for RF system was detected.

Sub error messages and Detecting conditions :

- EQ** : When the error occurs in an NV-RAM (IC703 on EQ-72 board) during the data write or read.
- DM** : When the error occurs in an NV-RAM (IC909 on DM-114/114P board) during the data write or read.
- TBC** : When the error occurs in an NV-RAM (IC1812 on DM-114/114P board) during the data write or read.

Possible causes : Trouble of an NV-RAM indicated by sub error message

Protecting operation : None

ERROR-99 INTERNAL INTERFACE ERROR 2
(INTERNAL I/F 2)

Description : Abnormality was detected in the communication between SYS2 CPU (IC108 on SY-260 board) and SERVO CPU (SV-194A board) or MPU (on EQ-72, DM-114/114P, or SDI-23 board).

Sub error messages and Detecting conditions :

- SV :** When the SERVO CPU (IC401 on SV-194A board) initialization at turn on the power is in abnormal state.
- EQ :** When the communication with EQ-72 board's MPU (IC708) is in abnormal state.
- DM :** When the communication with DM-114/114P board's MPU (IC908) is in abnormal state.
- TBC :** When the communication with DM-114/114P board's MPU (IC1808) is in abnormal state.
- DIF :** When the communication with SDI-23 board's MPU (IC455) is in abnormal state.

Possible causes :

- SV :**
- DIP switch (S100 on SV-194A board) setting defect
 - Common RAM (IC300 on SV-194A board) trouble
 - Servo system (on SV-194A board) trouble
- EQ :**
- MPU control interface circuit (IC402, IC459 and IC460 on SY-260 board) trouble
 - Interface buffers (IC702 and IC704 on EQ-72 board) trouble
 - EQ-72 board's MPU (IC708) trouble
- DM :**
- MPU control interface circuit (IC402, IC459 and IC460 on SY-260 board) trouble
 - DM-114/114P board's MPU (IC908) trouble
- TBC :**
- MPU control interface circuit (IC402, IC459 and IC460 on SY-260 board) trouble
 - DM-114/114P board's MPU (IC1808) trouble
- DIF :**
- MPU control interface circuit (IC402, IC459 and IC460 on SY-260 board) trouble
 - SDI-23 board's MPU (IC455) trouble

Protecting operations : When the sub error message is “**SV**”, enters the protection mode.
 When it is except above, displays only this error.

Section 3 Maintenance Mode

3-1. Overview of Maintenance Mode

This unit has the maintenance mode that is useful during maintenance and trouble diagnosis.

This maintenance mode consists of the four modes below.

The contents of the maintenance mode are superimposed on the video monitor connected to the VIDEO OUTPUT 2 (SUPER) connector.

To superimpose the contents of the maintenance mode, set the SUPER item on the general setting page of the sub menu to ON. (As for the sub menu, refer to the operation manual.)

```

      MAINTENANCE MODE

*M0 : TAPE MAINTENANCE
M2 : ERROR LOGGER
M3 : OTHERS
M4 : SETUP MAINTENANCE
  
```

Note

The typeface of characters displayed on the video monitor differs from the actual one.

(Mode screen during activation of maintenance mode)

M0 : TAPE MAINTENANCE (Section 3-2)

This mode is used for maintenance of a VTR part.

In this manual, explains tape maintenance items for adjustment only.

```

      TAPE MAINTENANCE MODE

*C0 : SERVO      CHECK
C1 : RF          CHECK
C2 : AUDIO/VIDEO CHECK
C3 : BETACAM PB  CHECK
A0 : SERVO      ADJUST
A1 : RF          ADJUST
A2 : AUDIO/VIDEO ADJUST
A3 : BETACAM PB  ADJUST
A4 : MECHANISM   ADJUST
  
```

M2 : ERROR LOGGER (Section 3-3)

This mode is used to display the record of errors (error logging) that occur in this unit.

```

      ERROR LOGGER
      (001/003)

*001 REEL TROUBLE-1
002 TAPE TENSION ERROR
003 INTERNAL I/F ERROR
-----
TAPE ERROR          ON
WARNING             ON
CONDITION           ON

' 99 09 03 09:23:00
  
```

Note

The display on the left is one of the displayed examples.

M3 : OTHERS (Section 3-4)

This mode is used for checking the others.

```

      M3:OTHERS

*M30:ROM VERSION
M31:SERIAL NUMBER
M35:MEMORY CHECK
M36:HOURLY METER RESET
M3F:MEMORY CARD UTILITY
  
```

M4 : SETUP MAINTENANCE (Section 3-5)

This mode is used for the setup menu.

```

      SETUP MAINTENANCE MODE

*M40 : EXTENDED MENU
M49 : RESET ALL SETUP
  
```

Buttons and Switches for Operation

The main buttons and switches related to the operation of maintenance mode are as follows : The ordinary functions of these buttons and switches and how to use them are described below.

① FL display panel

The menu (mode) No., menu title, selection item, status, or data is displayed on the FL display panel. The menu (mode) No. or selection item block blinks while the menu (mode) or selection item is selected (not including the servo menu in the TAPE maintenance mode). For manual adjustment, the data block blinks. In the state where the tape operation (PB, REC, F FWD, and REW) can be performed, it functions as an ordinary time counter.

There is a menu (mode) that contains insufficient information displayed on this (fluorescent) FL display panel. Since the information displayed on the video monitor is easier to operate and check, usually connect the video monitor to the VIDEO OUTPUT 2 (SUPER) connector.

② MENU button

Push this button in the maintenance mode to return to the screen (state) preceding by one step.

The maintenance mode is terminated if this button is pushed when the mode screen is displayed (mode No. M0, M2, M3 or M4 blinks in a FL display panel).

③ SET button

Push this button in the maintenance mode to select or execute the menu (mode) selected using a ⑦ JOG dial.

The maintenance mode can be activated when this SET button is pushed while pressing the ④ CTL/TC/U-BIT button in the setup menu mode with ⑨ DIP switch S201-2 on the SY-259B board set to ON (upper).

④ CTL/TC/U-BIT button

The maintenance mode can be activated when the ③ SET button is pushed while pressing this button in the setup menu mode with ⑨ DIP switch S201-2 on the SY-259B board set to ON (upper).

⑤ RESET button

Push this button in the error logger mode to erase the recorded error log.

⑥ STOP button

The data value of an electronic volume control can be displayed only while the STOP button is pressed in RF system automatic adjustment menu (A1 : RF ADJUST).

⑦ JOG dial

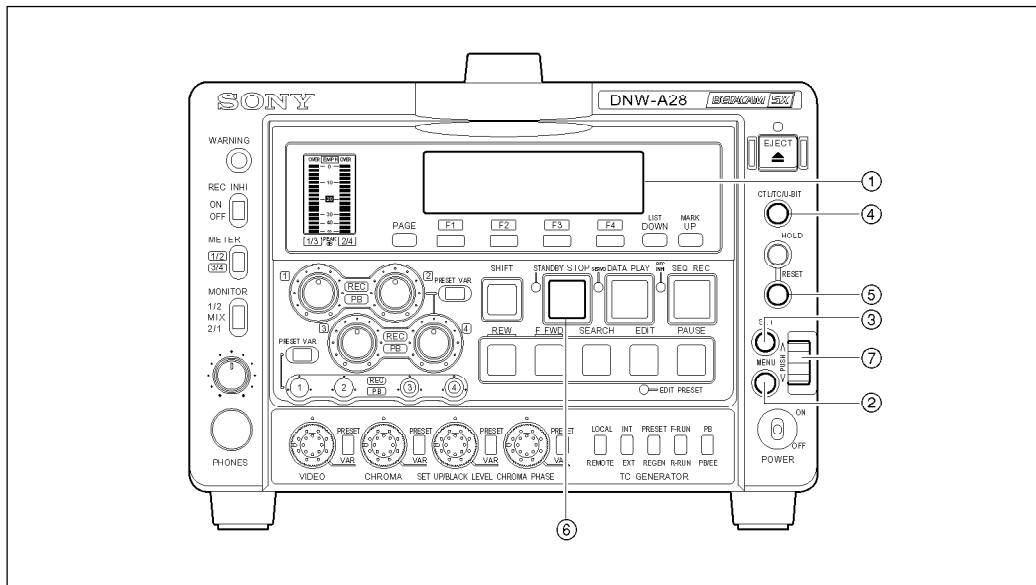
Turn the JOG dial to specify the menu (mode) or selection item. A “*” mark moves on the video monitor. In a FL display panel, the display is replaced and the specified item blinks. (“JOG DIAL” is displayed on the video monitor.)

The data value or setting can be changed by pushing then turning the JOG dial.

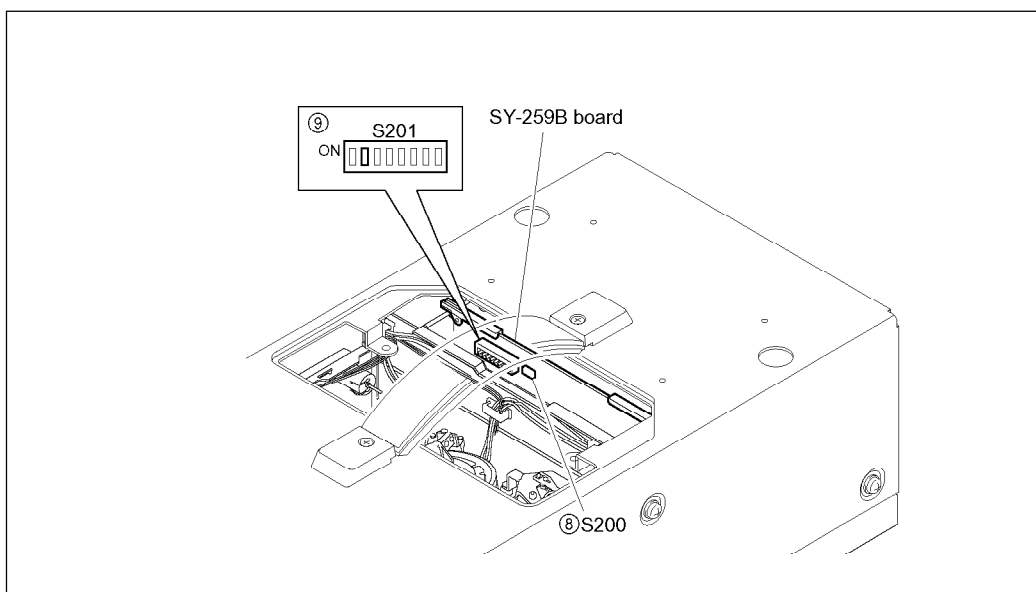
- ⑧ S200/SY-259B board: Maintenance mode start switch (MAINTENANCE MODE START)
Push this switch to activate the maintenance mode.
- ⑨ S201-2/SY-259B board: Maintenance mode access permission switch (MAINTENANCE MODE Access)
Set this switch to ON in advance when activating the maintenance mode by the button operation on the control panel.

Note

When operating the switches on the SY-259B board, loosen the lid screws using a coin and remove the sub-panel (TOP). Change the setting of DIP switch S201 after turning off the power.



Front Panel



Location of Switches on SY-259B Board

Activating the Maintenance Mode

- (1) Push the ⑧ S200 switch (on the SY-259B board).
- (2) The mode screen in the maintenance mode is superimposed on the video monitor.
In a ① FL display panel, "M0-TAPE MAINTEN" is displayed.

```

MAINTENANCE MODE
*M0 : TAPE MAINTENANCE
M2 : ERROR LOGGER
M3 : OTHERS
M4 : SETUP MAINTENANCE
    
```

Video monitor

```

M0 -TAPE MAINTEN
    
```

FL display panel

Activating the Maintenance Mode from Front Panel

The maintenance mode can be activated by the operation below when the S201-2 switch (on the SY-259B board) is set to ON (upper).

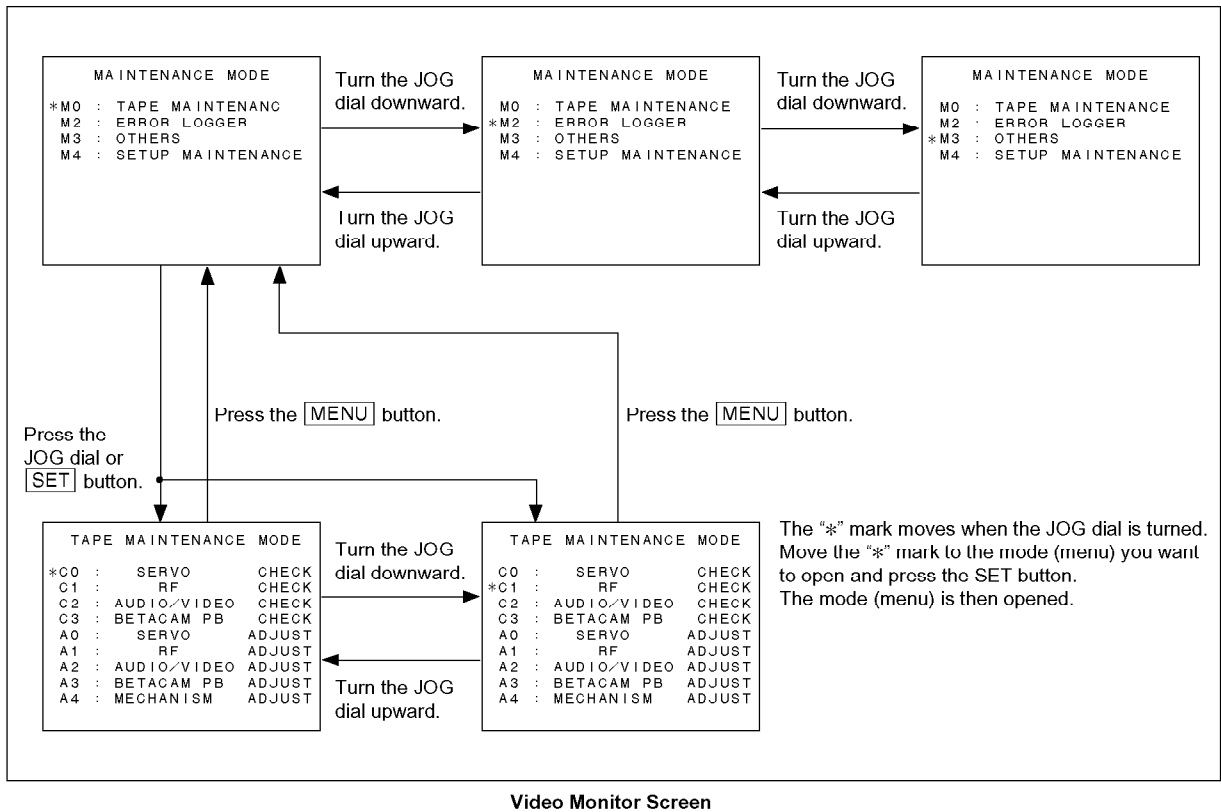
- (1) Push the ② MENU button once.
(Execute the setup menu mode from the operation mode.)
- (2) Push the ③ SET button while pressing the ④ CTL/TC/U-BIT button.
(Execute the maintenance mode from the setup menu mode.)
- (3) The mode screen in the maintenance mode is displayed on the video monitor.

Terminating the Maintenance Mode

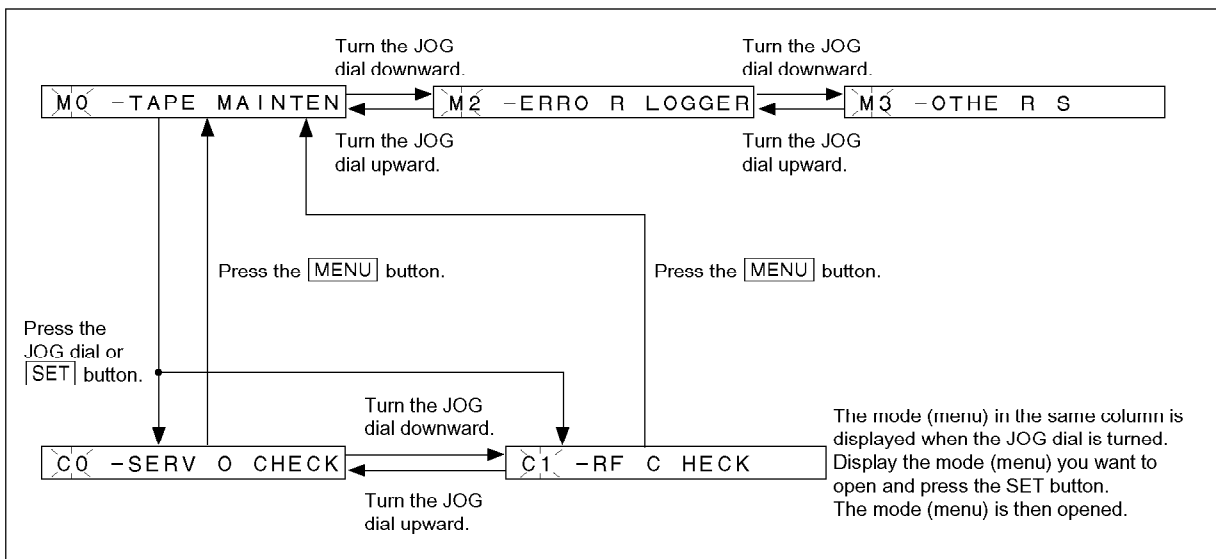
- (1) Push the ② MENU button several times to display the mode screen on the video monitor.
The selected mode No. and title are displayed in a FL display panel.
- (2) Push the ② MENU button again to terminate the maintenance mode.

Specifying the Menu (Mode) and Item

How to specify the menu (mode) and item using the JOG dial is described below with the mode selection given as an example.



Video Monitor Screen



FL Display Panel

3-2. TAPE Maintenance Mode (M0)

3-2-1. Overviews

The TAPE maintenance mode is used for the maintenance and check of a VTR.
This unit has the nine submodes below.

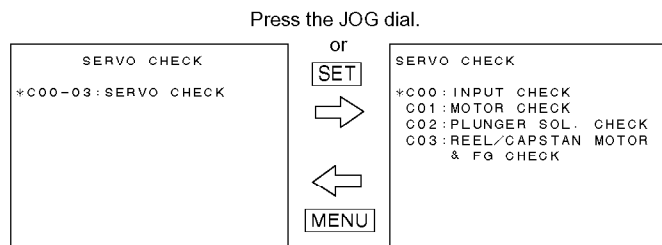
TAPE MAINTENANCE MODE		
*C0	: SERVO	CHECK
C1	: RF	CHECK
C2	: AUDIO/VIDEO	CHECK
C3	: BETACAM PB	CHECK
A0	: SERVO	ADJUST
A1	: RF	ADJUST
A2	: AUDIO/VIDEO	ADJUST
A3	: BETACAM PB	ADJUST
A4	: MECHANISM	ADJUST

TAPE Maintenance Mode

C0: SERVO CHECK

This submode is used to check the servo system of a VTR.

For more details, refer to Section 3-2-2.



Title	Page	Description
C00 : INPUT CHECK	—	Check menu of sensors (not including a part of sensors)
C000 : CASSETTE SW	3-13	Checks the cassette tab and REC inhibit sensors.
C001 : CASSETTE COMP. LOCK SW	3-14	Checks the cassette-in and cassette size sensors.
C002 : TOP/END SENSOR	3-15	Checks the tape top and tape end sensors.
C003 : DEW SENSOR	3-16	Checks the dew condensation sensors.
C01 : MOTOR CHECK	—	Check menu of motors (except a fan motor) and partial sensors
C010 : S REEL MOTOR	3-17	Checks the S reel motor.
C011 : FUNCTION CAM MOTOR	3-18	Checks the threading motor and threading/unthreading end sensors.
C012 : CAPSTAN MOTOR	3-20	Automatically checks the capstan motor.
C013 : DRUM MOTOR	3-21	Automatically checks the drum motor.
C02 : PLUNGER SOL. CHECK	—	Check menu of solenoids
C020 : S REEL BRAKE	3-22	Checks the S reel brake solenoid.
C03 : REEL/CAPSTAN MOTOR & FG CHECK	3-23	Continuous check menu of reel and capstan motors

C1 : RF CHECK

This submode is used to check the RF system.
For more details, refer to Section 3-2-3.

```
RF CHECK MODE
*C11:PB CH CONDITION
C12:REC CH CONDITION
```

Title	Page	Description
C11 : PB CH CONDITION	3-25	Checks the error condition for each PB head (A1, A2, A3, B1, B2, B3) on a drum in the PB mode.
C12 : REC CH CONDITION	3-30	Checks the error condition for each PB head (A1, A2, A3, B1, B2, B3) on a drum in the REC mode.

C2 : AUDIO/VIDEO CHECK

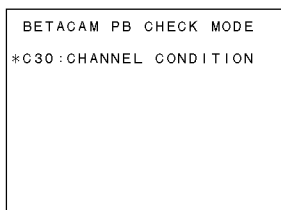
This submode is used to check the audio and video systems.
For more details, refer to Section 3-2-4.

```
AUDIO/VIDEO CHECK MODE
*C20:SYSTEM EE
C21:VIDEO TEST SG
C22:MULTI LOOP (10TIMES)
C23:AUDIO TEST SG
C24:DPR-87 DIAG INFO
```

Title	Page	Description
C20 : SYSTEM EE	3-35	Sets the system E-E function in the maintenance mode.
C21 : VIDEO TEST SG	3-36	Sets the video test signal generator incorporated into this unit.
C22 : MULTI LOOP	3-37	Sets the multi-loop function in the maintenance mode.
C23 : AUDIO TEST SG	3-38	Sets the audio test signal generator incorporated into this unit.
C24 : DPR-87 DIAG INFO	3-39	Displays the result of self diagnostic in DPR-87 board.

C3 : BETACAM PB CHECK

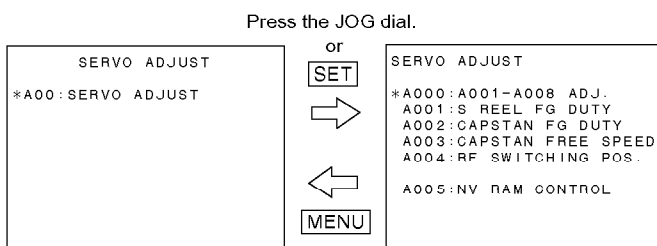
This submode is used to check the PB system based on a Betacam/Betacam SP format.
For more details, refer to Section 3-2-5.



Title	Page	Description
C30 : CHANNEL CONDITION	3-43	Checks the RF level condition for each video channel (Y and C) to be played back.

A0 : SERVO ADJUST

This submode is used to adjust the servo system.
For more details, refer to Section 3-2-6.



Title	Page	Description
A000 : A001-A003 ADJ.	3-46	Continuously executes the automatic adjustment menus (A001 to A003).
A001 : S REEL FG DUTY	3-47	Automatically adjusts the duty ratio of an S reel FG.
A002 : CAPSTAN FG DUTY	3-47	Automatically adjusts the duty ratio of a capstan FG.
A003 : CAPSTAN FRICTION	3-47	Automatically adjusts the capstan friction.
A004 : CAPSTAN FREE SPEED	3-48	Automatically adjusts the capstan free speed.
A005 : RF SWITCHING POS.	3-49	Automatically adjusts the RF switching position.
A006 : NV-RAM CONTROL	3-51	Saves the adjustment data in a servo system.

A1 : RF ADJUST

This submode is used to adjust the RF system.
For more details, refer to Section 3-2-7.

```
RF ADJUST MODE
*A11: EQUALIZER
A12: REC CURRENT
A13: PLAY PLL
A14: FWD PLL
A15: REV PLL
A16: A/D GAIN
A17: A11-A16 ALL ADJUST
A1F: NV-RAM CONTROL
```

Title	Page	Description
A11 : EQUALIZER	3-52	Automatically adjusts the PB head playing back level and PB equalizer (for A1, A2, A3, B1, B2, and B3 channels).
A12 : REC CURRENT	3-52	Automatically adjusts the recording current.
A13 : PLAY PLL	3-52	Automatically adjusts the PB PLL circuit (in the PLAY mode).
A14 : FWD PLL	3-52	Automatically adjusts the PB PLL circuit (in the FORWARD mode).
A15 : REV PLL	3-52	Automatically adjusts the PB PLL circuit (in the REVERSE mode).
A16 : A/D GAIN	3-52	Automatically adjusts the gain when a PB RF signal is converted from analog to digital.
A17 : A11-A16 ALL ADJUST	3-58	Continuously executes the above automatic adjustment menus A11 to A16.
A1F : NV-RAM CONTROL	3-61	Saves the adjustment data in an RF system.

A2 : AUDIO/VIDEO ADJUST

This submode is used to adjust the audio and video systems.
For more details, refer to Section 3-2-8.

```
AUDIO/VIDEO ADJUST MODE
*A20: VPR/TG VR
A23: SDI VR
A24: INPUT CF DETECT
A25: DEC VR
A26: DEC VR (LOOP)
A27: VIDEO METER
A2F: NV-RAM CONTROL
```

Title	Page	Description
A20 : VPR/TG VR	3-63	Adjusts the reference signal system and analog video output system on the VPR-34 and TG-191/191P boards.
A23 : SDI VR	3-63	Adjusts the SDI input/output interface.
A231 : SDI ENC VCO	3-63	Automatically adjusts the SDI output interface.
A232 : SDI DEC VCO	3-63	Automatically adjusts the SDI input interface.
A24 : INPUT CF DETECT	3-66	Automatically adjusts the color frame detection timing of a composite video input.
A25 : DEC VR	3-68	Adjusts the composite video input system.
A26 : DEC VR (LOOP)	3-68	Adjusts the composite video input (in the multi-loop state).
A27 : VIDEO METER	3-68	Calibration of video meter on the FL display panel.
A2F : NV-RAM CONTROL	3-70	Saves the adjustment data in audio and video systems.

A3 : BETACAM PB ADJUST

This submode is used to adjust the PB system based on a Betacam/Betacam SP format.
For more details, refer to Section 3-2-9.

```
BETACAM PB ADJUST MODE
*A30 : EQ VR
A32 : DM VR 1
A33 : DM VR 2
A34 : DM VR 3
A35 : DM VR 4
A36 : DM VR 5
A37 : TBC VR
A3F : NV-RAM CONTROL
```

Title	Page	Description
A30 : EQ VR	3-72	Adjusts the gain of an analog Betacam PB RF amplifier (EQ-72 board).
A32 : DM VR 1	3-72	Adjusts the frequency characteristics of a primary cosine equalizer (DM-114/114P board).
A33 : DM VR 2	3-72	Adjusts the frequency characteristics of a secondary cosine equalizer (main) (DM-114/114P board).
A34 : DM VR 3	3-73	Adjusts the frequency characteristics of a secondary cosine equalizer (sub) (DM-114/114P board).
A35 : DM VR 4	3-73	Adjusts the guard band width and sets the DC offset level of an over-modulation compensation circuit.
A36 : DM VR 5	3-73	Adjusts the threshold level of a dropout and sets the threshold level of an RF envelope.
A37 : TBC VR	3-73	Sets the read clock timing on the DM-114/114P board and the data of a PB VISC phase detection circuit.
A3F : NV-RAM CONTROL	3-74	Saves the adjustment data in an analog Betacam PB system.

A4 : MECHANISM ADJUST

This submode is used to adjust the mechanism part.
For more details, refer to Section 3-2-10.

```
MECHANISM ADJUST
*A40 : PATH MODE SEL
```

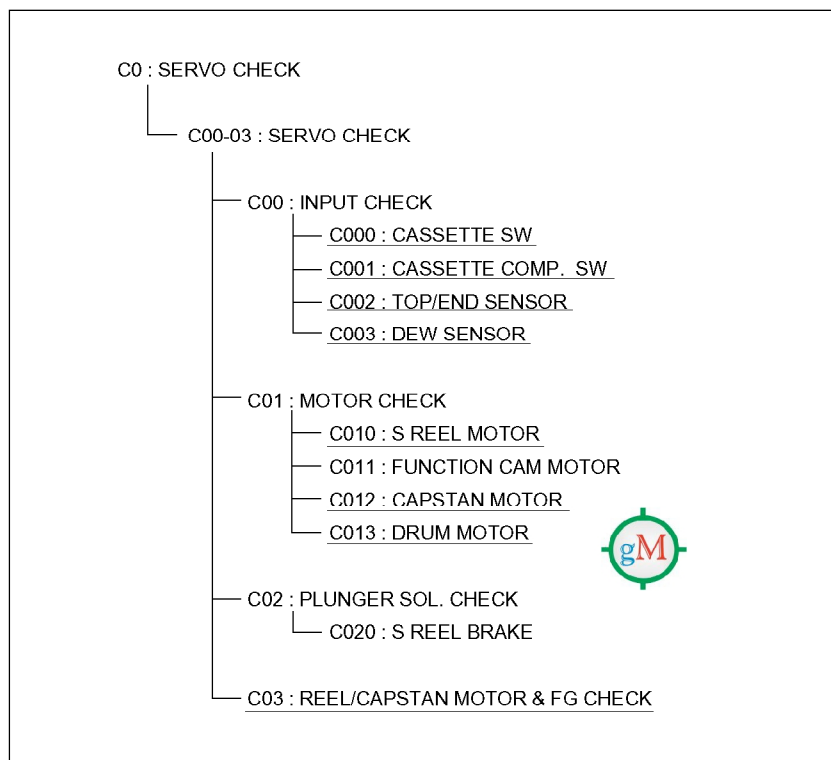
Title	Page	Description
A40 : PATH MODE SFI	3-75	Sets the tape PB mode (Used for tape transport adjustment).

3-2-2. SERVO CHECK Mode (C0)

The C0: SERVO CHECK mode is used to check the servo system of a VTR.
The underlined menus and submenus in the menu tree below are described next.

Note

In the servo check mode, only the menu number is displayed in a FL display panel.
(C00-03 is displayed as "C00".)



Menu Tree of Servo System Check Mode

Note

A cassette tape is automatically ejected if it has been inserted into this unit when the C00-03 : SERVO CHECK screen is shifted to the lower-level menu.

C000 : CASSETTE SW

This submenu checks the functions of cassette tab sensors and REC inhibit sensors (switches).

- (1) Press each sensor (switch) and hold it with a finger.
 - Check to see that “0” below the corresponding switch number changes to “1”.
- (2) Release the sensor (switch).
 - Check to see that “1” below the corresponding switch number returns to “0”.
- (3) To finish the check, push the MENU button.

In case of NG

When cassette tab sensors (① to ⑥) are NG

- Check the corresponding sensor (S400 to S405) on the SV-194A board.
- Check the sensor input port of CPU (IC401 on the SV-194A board).

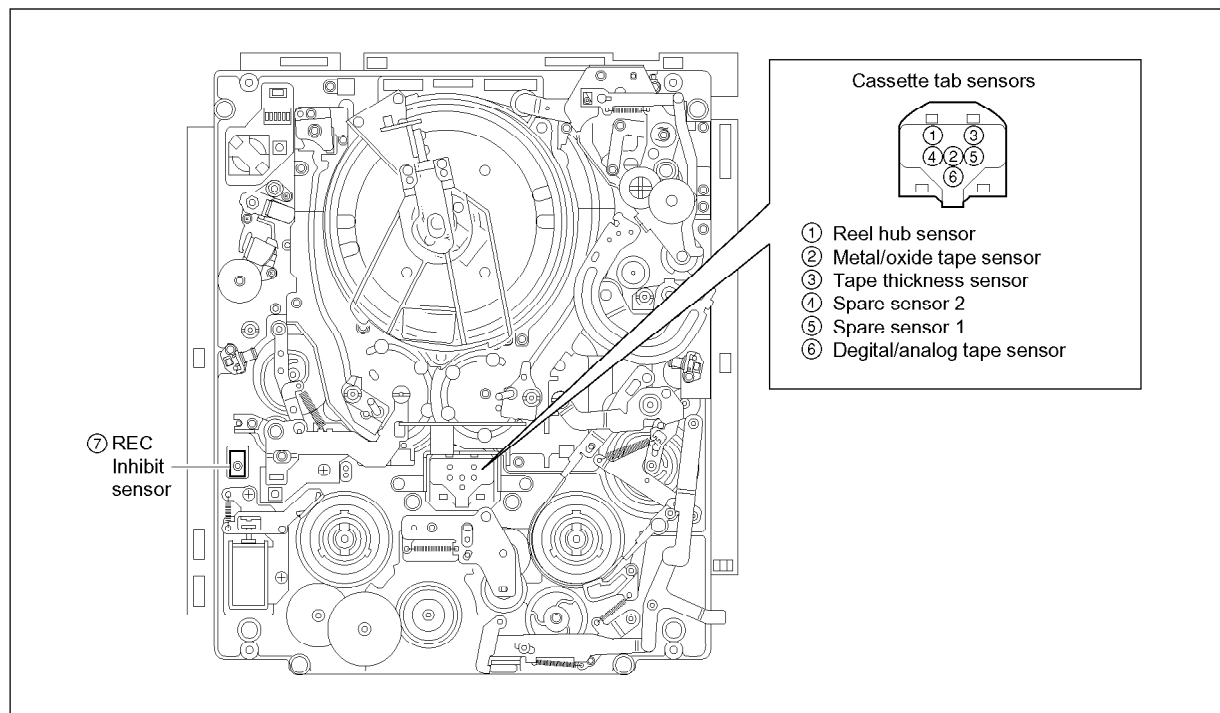
When REC inhibit sensor (⑦) is NG

- Check the sensor (S406) on the SV-194A board.
- Check the sensor input port of CPU (IC401 on the SV-194A board).

INPUT CHECK				
C000: CASSETTE SW				
1: REEL HUB	2: METAL/OX			
3: THICKNESS	4: SPARE			
5: SPARE	6: DGTL/ANLG			
7: S REC INH				
SW 7654321	7	1	3	
0000000		425	6	

(ex.: When pushing the switch ⑦)

INPUT CHECK				
C000: CASSETTE SW				
1: REEL HUB	2: METAL/OX			
3: THICKNESS	4: SPARE			
5: SPARE	6: DGTL/ANLG			
7: S REC INH				
SW 7654321	7	1	3	
1000000		425	6	



Locations of Sensors (Switches)

C001 : CASSETTE COMP. SW

This submenu checks the function of the cassette compartment down sensor.

- (1) Move the slide panel upward.
- (2) Check to see that the message on the video monitor changes from “OFF” to “ON!” by moving the shutter plate at the right side of the cassette compartment in the arrow direction.
- (3) To finish the check, push the MENU button.

In case of NG

- Check the cassette compartment down sensor on the SV-194A board.
- Check the sensor input port of CPU (IC304 on the SV-194A board).

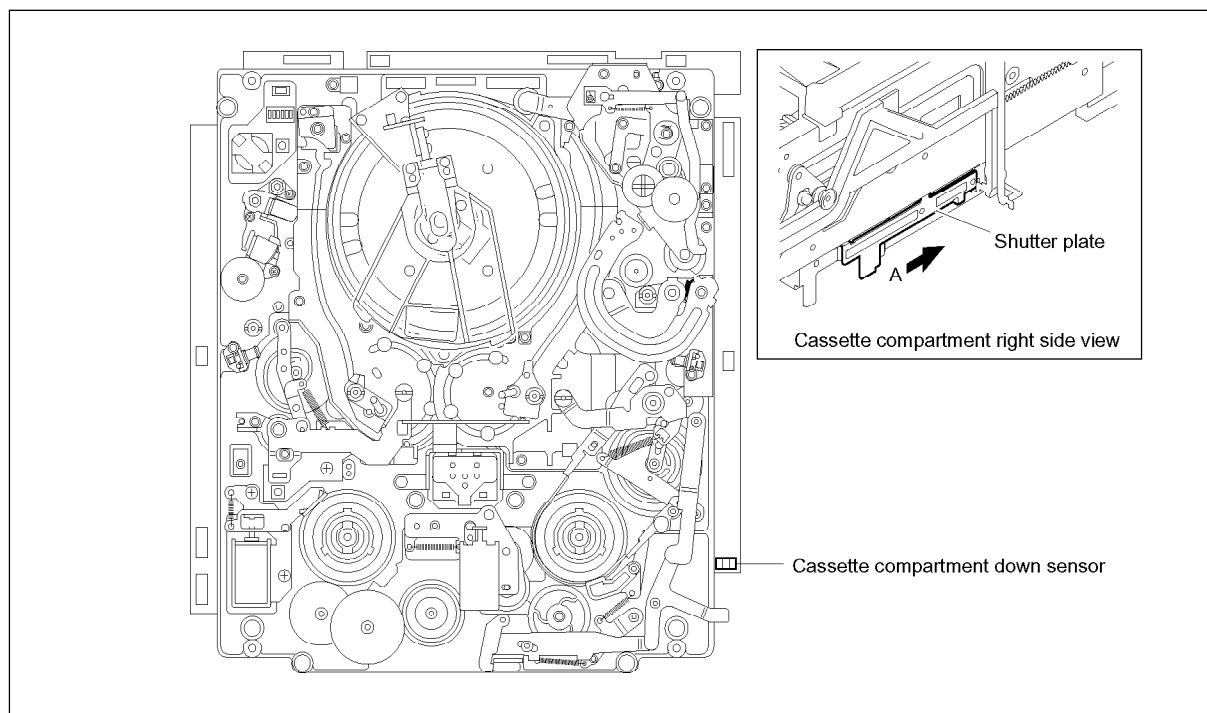
```

INPUT CHECK
C001 : CASSETTE COMP. SW
OFF
    
```



```

INPUT CHECK
C001 : CASSETTE COMP. SW
ON !
    
```



Cassette compartment down sensor

C002 : TOP/END SENSOR

This submenu checks the functions of a tape top sensor and tape end sensor.

- (1) Close a metallic screwdriver to each sensor.
 - Check to see that the characters below the corresponding sensor change from “OFF” to “ON!”.

CAUTION

Pay careful attention to keep the screwdriver from contact with each sensor.

- (2) Distance the screwdriver from each sensor.
 - Check to see that the characters below the corresponding sensor return from “ON!” to “OFF”.

- (3) To finish the check, push the MENU button.

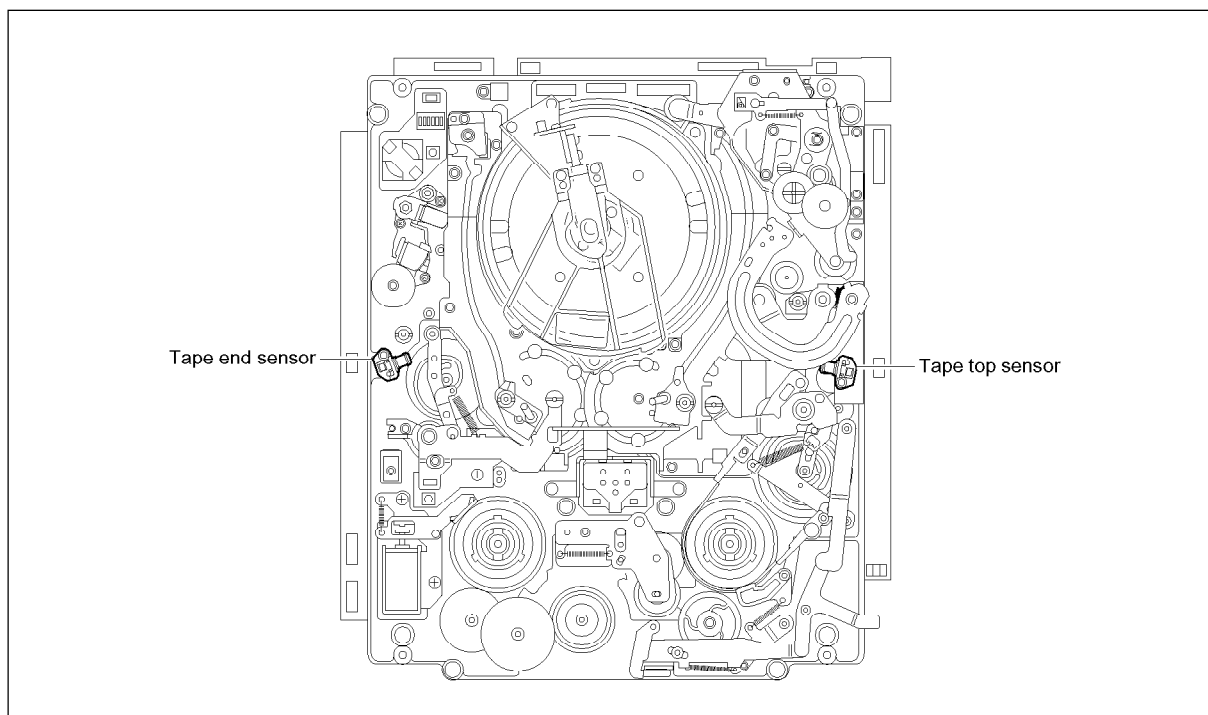
In case of NG

- Check each sensor itself.
- Check the oscillator and detection circuit (IC405 on the SV-194A board) for sensors.
- Check the sensor input port of CPU (IC116 on the SV-194A board).

INPUT CHECK	
C002 : TOP/END SENSOR	
END SENSOR	TOP SENSOR
OFF	OFF

(ex.)

INPUT CHECK	
C002 : TOP/END SENSOR	
END SENSOR	TOP SENSOR
OFF	ON !



Locations of Tape Top and Tape End Sensors

C003 : DEW SENSOR

This submenu checks the function of a dew condensation sensor.

- (1) Touch the sensor slightly with the cotton swab moistened with water.
 - Check to see that the “DRY” characters change to “WET!”.
- (2) Wipe the sensor with a dry cotton swab to eliminate the moisture or evaporate moisture completely using a blower.
 - Check to see that the “WET!” characters return to “DRY”.
- (3) To finish the check, push the MENU button.

In case of NG

- Check the sensor itself.
- Check the detection circuit (on the SV-194A board).
- Check the sensor input port of CPU (IC401 on the SV-194A board).

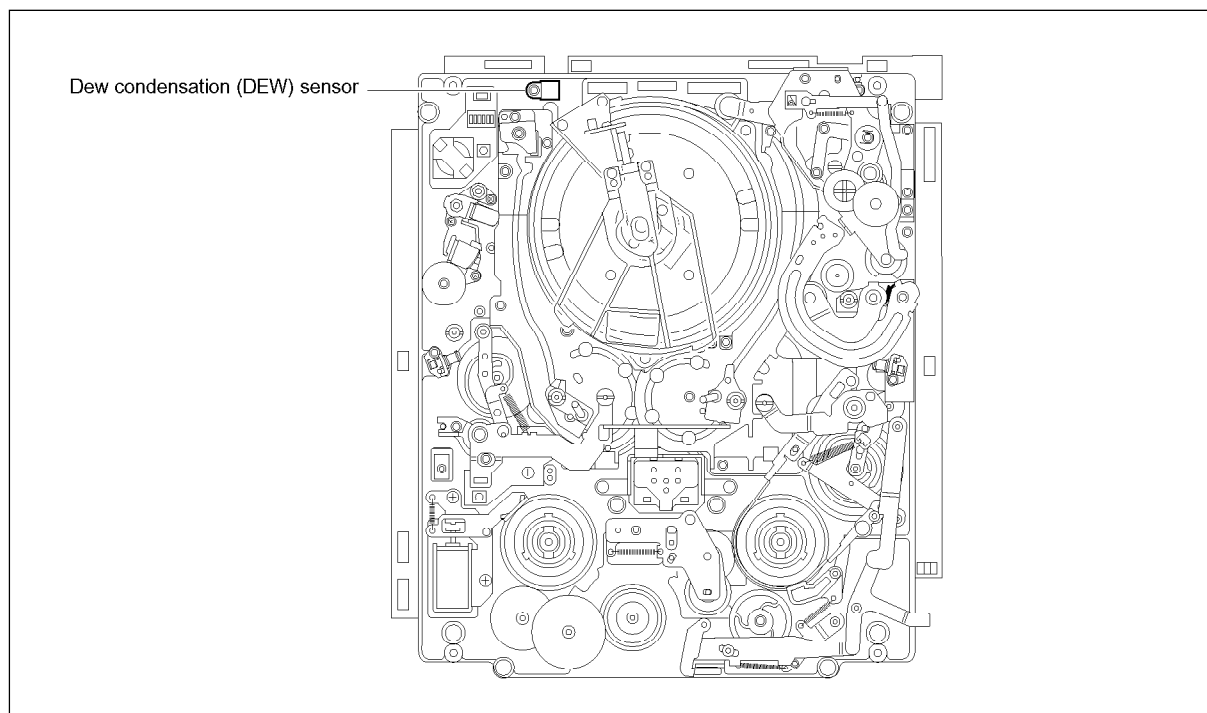
```
INPUT CHECK
C003:DEW SENSOR

DEW SENSOR : DRY
```

↓ moisten dry up ↑

```
INPUT CHECK
C003:DEW SENSOR

DEW SENSOR : WET!
```



Location of Dew Condensation Sensor

C010 : S REEL MOTOR

This sub menu checks the function of an S reel motor.

- (1) Turn the JOG dial downward or upward.
Check to see that the reel table rotates in the specified direction at a fixed speed (about one turn per second) after the reel brake is released.

Rotation direction of JOG dial	Rotation direction of reel table
Downward (↓)	Clockwise (↻)
Upward (↑)	Counterclockwise (↻)

- (2) Stop the rotation of the JOG dial and check that the reel table stops and that the reel brake operates.
- (3) To finish the check, push the MENU button.

In case of NG

When the reel table operation is defective

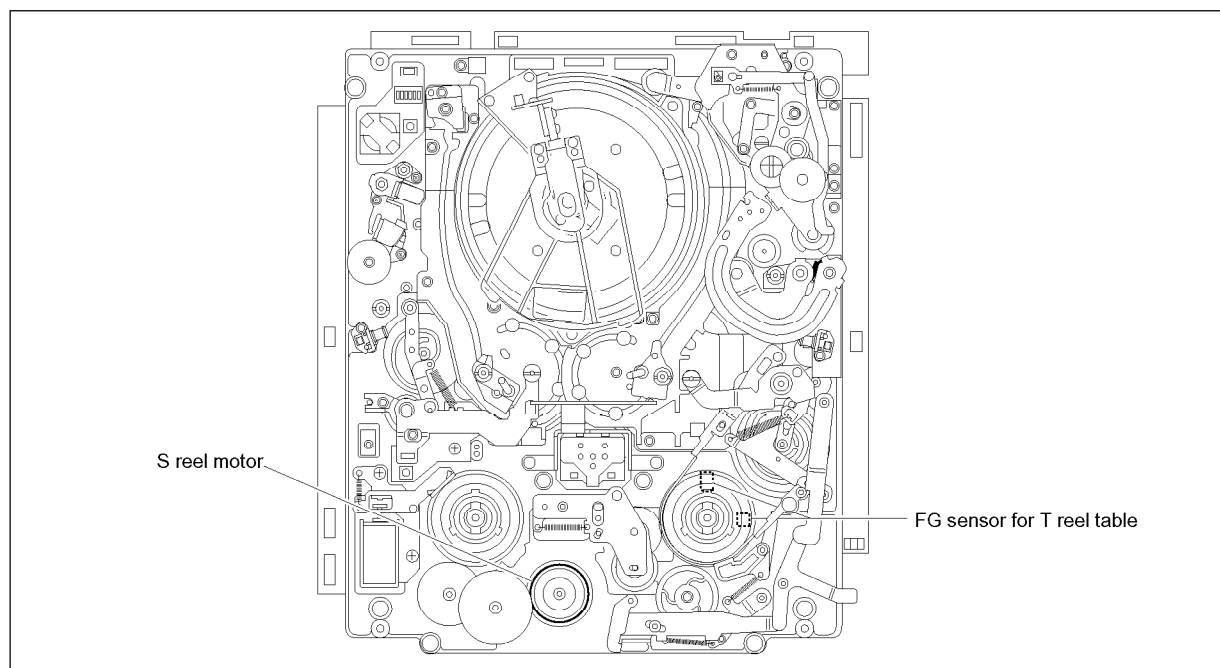
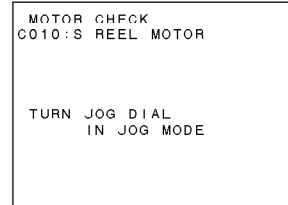
- Check the S reel motor drive circuit (on the SV-194A board).
- Check the S reel motor.

When the reel table is not constant at a rotation speed

- Adjust the duty ratio of an S reel FG. (A001)
- Check the FG output from a T reel table FG sensor (on the SV-194A board).
- Check the FG output from a S reel motor.
- Check the reel FG shaping circuit (on the SV-194A board).

When the brake solenoid operation is defective

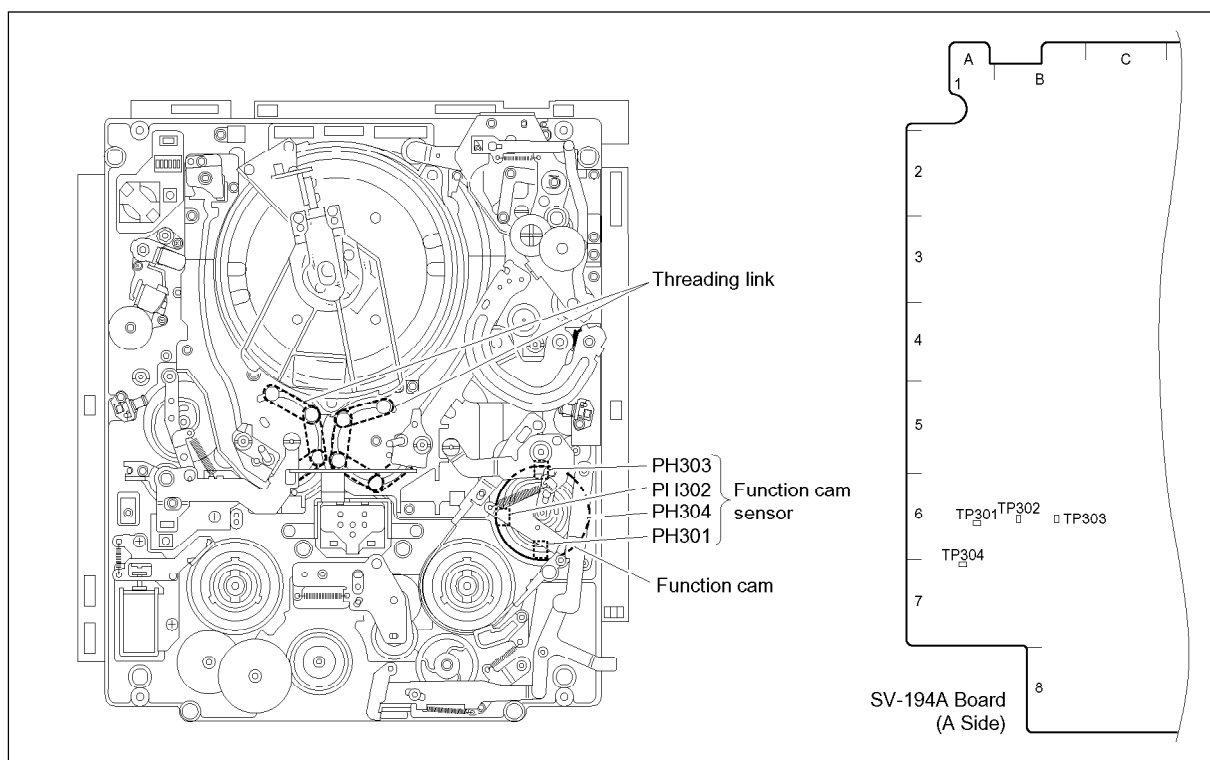
- Check the S brake solenoid. (C021)



Locations of Reel Table FG Sensors

Code transition of the function cam

State of sensors (on the SV-194A board)				Condition of this unit
PH304 (TP304)	PH303 (TP303)	PH302 (TP302)	PH301 (TP301)	
1	1	1	1	UNTHREAD END OVER
1	1	1	0	UNTHREAD END
1	1	0	0	<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 10px;"> ↓ UNTHREADING ↑ </div> <div style="text-align: center; margin-right: 10px;"> ↑ THREADING ↓ </div> </div>
1	1	0	1	
1	0	0	1	
1	0	0	0	
1	0	1	0	
1	0	1	1	
0	0	1	1	
0	0	1	0	
0	0	0	0	
0	0	0	1	
0	1	0	1	
0	1	0	0	
0	1	1	0	
0	1	1	1	
0	1	1	1	THREAD END OVER



Locations of Threading End and Unthreading End Sensors

C012 : CAPSTAN MOTOR

This sub menu checks the function of a capstan motor.

- (1) Push the JOG dial or SET button.
 - Check to see that the capstan shaft rotates in the forward (⌚) direction.
 - Check to see that message “FORWARD....OK” is displayed on the video monitor and that the capstan shaft stops.
- (2) Push the JOG dial or SET button again.
 - Check to see that the capstan shaft rotates in the reverse (⌚) direction.
 - Check to see that message “REVERSE....OK” is displayed on the video monitor and that the capstan shaft stops.
- (3) To finish the check, push the MENU button.

In case of NG

- Check the mechanical abnormality.
- Check the capstan motor drive circuit (on the SV-194A board).
- Check the FG output from a capstan motor.
- Check the capstan FG shaping circuit (on the SV-194A board).
- Check each circuit that processes the capstan FG on the SV-194A board.
- Check the capstan motor.

MOTOR CHECK
C012:CAPSTAN MOTOR



SET

MOTOR CHECK
C012:CAPSTAN MOTOR

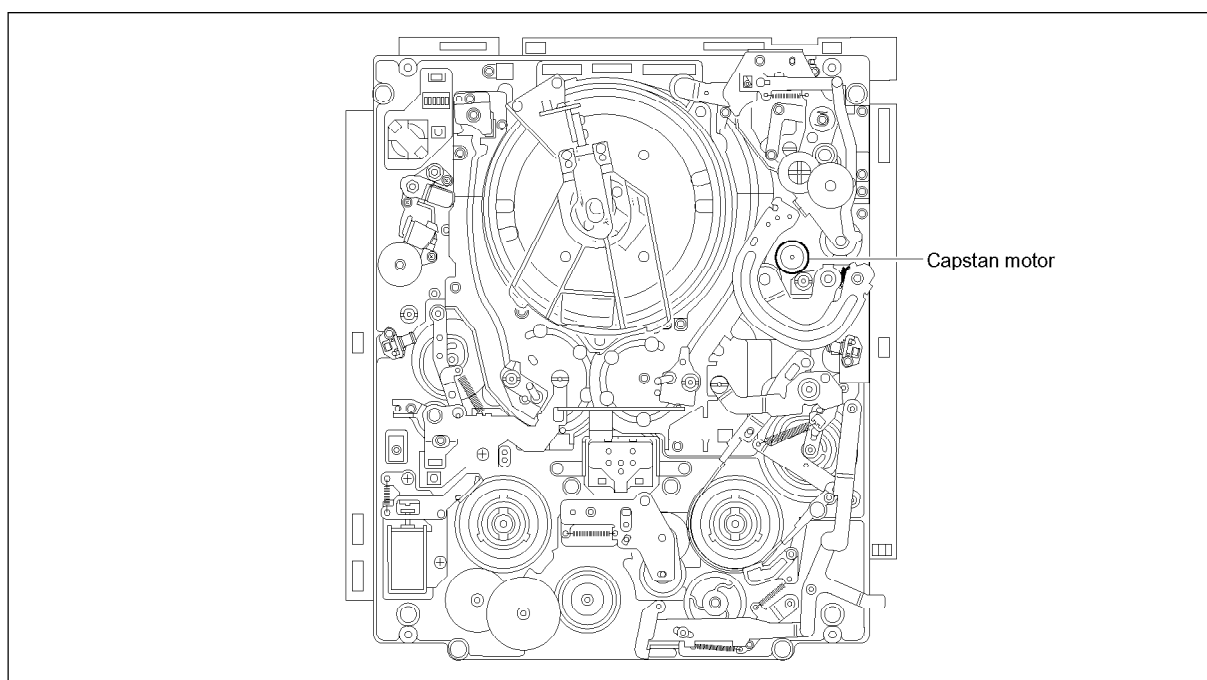
FORWARD



After about 10 sec.

MOTOR CHECK
C012:CAPSTAN MOTOR

FORWARD OK



Location of Capstan Shaft

C013 : DRUM MOTOR

This sub menu checks the function of a drum motor.

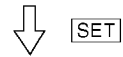
- (1) Push the JOG dial or SET button.
 - Check to see that the drum rotates.
 - Check to see that the video monitor changes as shown on the right.
- (2) To finish the check, push the MENU button.
 - Check to see that the drum stops.

In case of NG

- Check the mechanical abnormality.
- Check the drum motor drive circuit (on the SV-194A board).
- Check the FG and PG outputs from a drum motor.
- Check each circuit that processes the drum FG/PG on the SV-194A board.

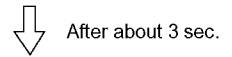
```
MOTOR CHECK
C013: DRUM MOTOR

SPEED :
PHASE :
PG :
```



```
MOTOR CHECK
C013: DRUM MOTOR

SPEED :      NG
PHASE :      UNLOCK
PG :         NO EXIST
```



```
MOTOR CHECK
C013: DRUM MOTOR

SPEED :      OK
PHASE :      LOCK
PG :         EXIST
```

C020 : S REEL BRAKE

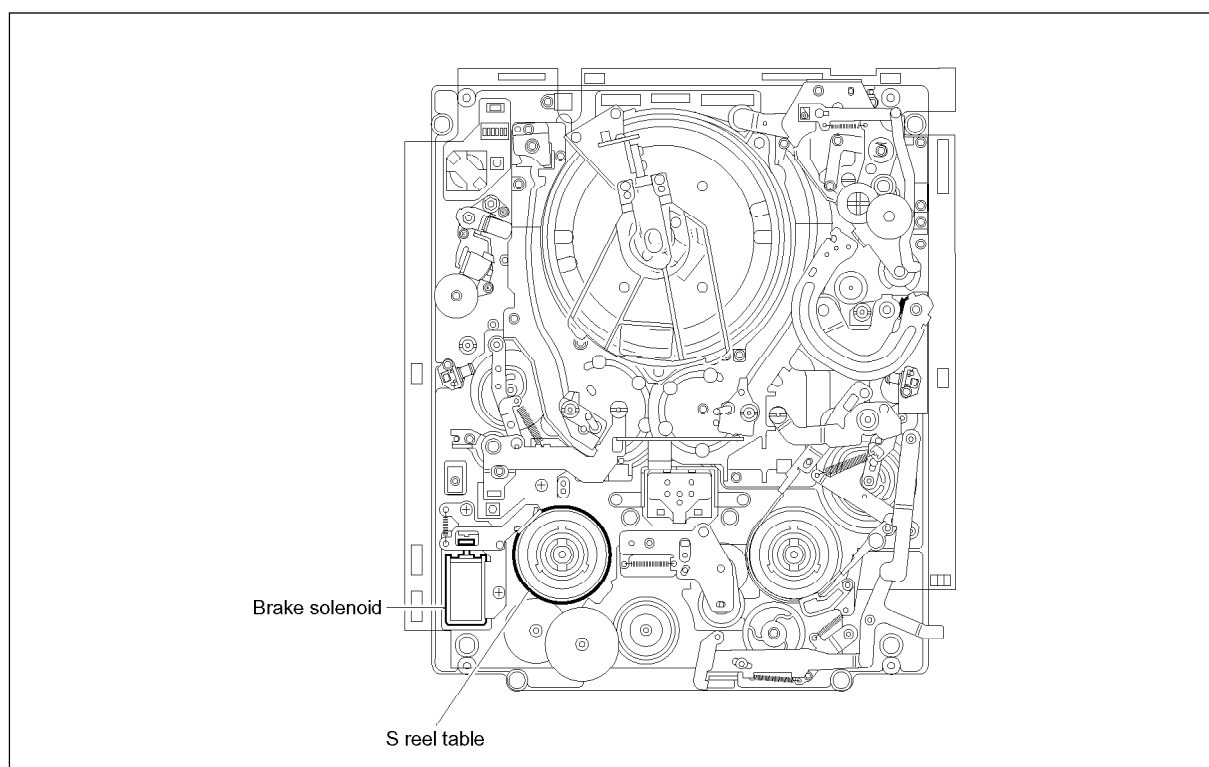
This sub menu checks the function of an S reel brake solenoid.

- (1) Push the JOG dial or SET button.
 - Check the “click” sound when the reel brake solenoid is activated. (The reel table can be smoothly turned with a hand because the brakes are released.)
- (2) Push the MENU button.
 - The check menu is terminated.
 - Turn the reel table clockwise by fingers, and then check that the brake is applied to the reel table because the reel brake solenoid is deactivated.

PLUNGER SOLENOID
C020 : S REEL BRAKE

In case of NG

- Check the mechanical abnormality.
- Check the drive circuit of the reel brake solenoid (on the SV-194A board).
- Check the reel brake solenoid itself.



Location of Reel Brake Solenoid

C03 : REEL/CAPSTAN MOTOR & FG CHECK

This menu checks the following items automatically and continuously.

- S reel FG duty ratio (C031 : S REEL FG/MOTOR CHECK)
- Capstan FG duty ratio (C033 : CAPSTAN FG/MOTOR CHECK)

- (1) Select C03 in the servo check mode and push the JOG dial or SET button to start the check.
 - The item name to be checked is displayed on the video monitor, and the menu number (C031 and C032) is displayed in a FL display panel.
- (2) Check to see that the message "CHECK COMPLETE" is displayed after completing all the checks.
If the message "# CHECK INCOMPLETE #" is displayed halfway, refer to the following NG cases during check.
- (3) To return to the selection of the servo check mode, push the MENU button.

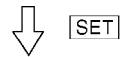
In the case of NG during (C031) S REEL FG/MOTOR CHECK

Perform the S reel motor check (C010). If no abnormality is found in the motor or its drive circuit, perform the S reel FG duty adjustment (A001).

In the case of NG during (C032) CAPSTAN FG/MOTOR CHECK

Perform the capstan motor check (C014). If no abnormality is found in the motor or its drive circuit, perform the capstan FG duty adjustment (A003).

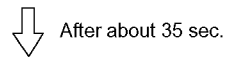
```
C00: INPUT CHECK
C01: MOTOR CHECK
C02: PLUNGER SOL. CHECK
*C03: REEL/CAPSTAN MOTOR
      & FG CHECK
```



```
REEL/CAPSTAN MOTOR
& FG CHECK

S REEL FG/MOTOR CHECK

CHECKING...
```



```
REEL/CAPSTAN MOTOR
& FG CHECK

CHECK COMPLETE
```



```
*C00: INPUT CHECK
C01: MOTOR CHECK
C02: PLUNGER SOL. CHECK
C03: REEL/CAPSTAN MOTOR
      & FG CHECK
```

(ex. of NG)

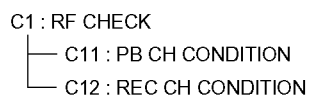
```
REEL/CAPSTAN MOTOR
& FG CHECK

S REEL FG/MOTOR CHECK

# CHECK INCOMPLETE #
```

3-2-3. RF CHECK Mode (C1)

The C1 : RF CHECK mode is used to check the PB RF system based on an Betacam SX format.

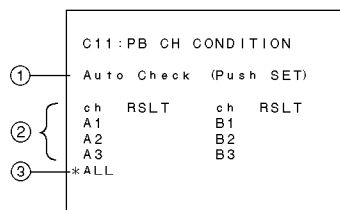


```
graph TD; C1[C1 : RF CHECK] --- C11[C11 : PB CH CONDITION]; C1 --- C12[C12 : REC CH CONDITION];
```

C1 : RF CHECK
├ C11 : PB CH CONDITION
└ C12 : REC CH CONDITION

Menu Tree of RF System Check Mode

C11 : PB CH CONDITION



In this menu, the error condition for each channel is displayed in three steps (GRN, YEL, and RED) when the tape recorded based on a Betacam SX format is played back by tracking.

C11 checks using the PB signal from the PB heads (A1, A2, A3, B1, B2, and B3 channels) in the PB mode.

Notes

- During normal played back operation, the tape is played back by non-tracking. Therefore, the condition for each channel cannot be checked using a CH CONDITION indicator.
- If abnormality exists in the servo system of a VTR, each menu of C1 : RF CHECK does not function properly.

Description of video monitor

- ① The display in this line changes. Each display and its meaning are described below.

Auto Check (Push SET) : Push the SET button to start the check.

Insert SR5-1 : Insert an alignment tape.

Auto Tracking... : Tracking is in an optimization process.

Auto Checking... : Check is in progress.

Auto Check Complete : Check is completed.

Auto Check Failure : Check failure

Condition NG : Error condition defect

- ② Select using a * mark when checking the condition for each channel.

After the check is completed, the condition (GRN, YEL, or RED) is displayed on the right of a channel name. "RED" is displayed even if the check fails.

Note

"RSLT" indicates the result.

- ③ Select ALL when checking the condition for all channels.

During check, the condition in each channel is displayed for area ②.

After the check for all channels is completed, "GRN" is also displayed on the right of ALL if the condition for all channels is GRN. If there is at least one channel whose condition is YEL or RED, the worst condition is displayed on the right of ALL.

To execute the check

- (1) Insert the alignment tape SR5-1 (for a 525/60 system) or SR5-1P (for a 625/50 system).

Notes

- The tape amount on the recorded portion that is played back after a cassette tape is inserted must exceed the check execution time.
The check execution time for each channel is usually about ten seconds and about 80 seconds in an ALL check.
- (2) Turn the JOG dial and move the * mark to the channel to be checked or ALL.
- Usually, select ALL.
- (3) Push the SET button.
- The tape is automatically played back in the PLAY mode. The check is then initiated.
 - Message “Auto Tracking ...” or “Auto Checking ...” is displayed on the video monitor.
During ALL check execution, the check result in the channel is displayed every time a one-channel check is completed.
The FL display panel displays an ordinary time counter.
 - To cancel the check, push the MENU button.

Notes

- Message “Insert SR5-1” is displayed on the video monitor when no cassette tape is inserted. The tape is automatically played back in the PLAY mode when a cassette tape is inserted. The check is then initiated.
 - If message “Auto Check (Push SET)” is continuously displayed on the video monitor, the non-recorded portion on the tape is judged to be played back from the beginning. Change the playback position on the tape.
 - Check cannot be properly performed in modes other than PLAY mode. Leave the check as it is until automatic check is completed. If modes other than PLAY mode are entered, the check cannot be performed any longer or the condition becomes “RED”.
- (4) Confirm the check result on the video monitor.
- If no abnormality is found, “GRN” is displayed on the right of the selected channel or ALL.
 - Refer to the “For Check Failure” on page 3-29 when message “Auto Check Failure” is displayed on the video monitor.
 - Refer to the “For Condition NG” on page 3-28 when message “Condition NG” is displayed on the video monitor or when conditions other than “GRN” are displayed on the right of the checked channel.

Notes

- Refer to the “For Check Failure” on page 3-29 when the check result in all channels is “RED” even if message “Condition NG” is displayed on the video monitor during ALL check execution.
 - “GRN”, “YEL”, or “RED” is displayed in a FL display panel. In only the FL display panel, it cannot be confirmed whether the condition is NG or check failure when it is “RED”.
The check result for each channel is displayed when the JOG dial is turned after performing ALL check.
- (5) Push the MENU button when terminating the menu.
To execute the check again in this menu, return to step (2).

Note

To change the playback tape, push the SET button while pressing the EJECT button. The tape is then ejected without influencing the check result. Insert another tape and push the PLAY button. The check is then initiated. This operation does not coincide with the message on the video monitor.

Examples of display and operation
When ALL is selected in C11 : PB CH CONDITION.

Video monitor

```
C11:PB CH CONDITION
Auto Check (Push SET)

ch  RSLT      ch  RSLT
A1          R1
A2          B2
A3          B3
*ALL
```

FL display panel

C 11 - ALL

(continued)

```
C11:PB CH CONDITION
Auto Check Complete

ch  RSLT      ch  RSLT
A1  GRN      B1  GRN
A2  GRN      B2  GRN
A3  GRN      B3  GRN
*ALL GRN
```

C 11 - ALL GRN

- (1) ↓ Insert SR5-1/SR5-1P
(2) ↓ Select
(3) ↓ **SET**

- (4) ↓ Check
(5) ↓ **MENU**

```
C11:PB CH CONDITION
Auto Tracking ...

ch  RSLT      ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
```

↓

```
C11:PB CH CONDITION
Auto Checking ...

ch  RSLT      ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
```

↓

```
C11:PB CH CONDITION
Auto Check Complete

ch  RSLT      ch  RSLT
A1  GRN      B1
A2          B2
A3          B3
*ALL
```

↓

```
C11:PB CH CONDITION
Auto Tracking ...

ch  RSLT      ch  RSLT
A1  GRN      B1
A2          B2
A3          B3
*ALL
```

↓

(omitted)

↓

(continue)

For Channel Condition NG

Check, recheck, and clean the drum (video heads) according to the procedures below.

- (1) If a check is performed using alignment tapes other than SR5-1/SR5-1P, recheck using alignment tape SR5-1/SR5-1P.

If no abnormality is found, the check is completed.

Note

If no abnormality is found during check using an alignment tape, a trouble (tape is damaged or recording is not done properly) is considered to exist in the previously played back tape portion.

- (2) Change the playback portion on the alignment tape, then recheck.

If no abnormality is found, the recheck is completed.

- (3) Recheck using an alignment tape after performing the cleaning using a cleaning tape (in Section 4-2-1).

If no abnormality is found, the recheck is completed.

- (4) Recheck using an alignment tape after performing the cleaning using a cleaning tape again (the amount of the tape used is 15 seconds).

If no abnormality is found, the recheck is completed.

- (5) Recheck using an alignment tape after performing the cleaning with cleaning cloth (in Section 4-2-3).

If no abnormality is found, the recheck is completed.

If the error condition is not improved in the way mentioned above, the possible cause below are considered.

- VTR's servo system adjustment defect or circuit defect
 - ⇒ Readjust the servo system. (A0 : SERVO ADJUST)
 - ⇒ Check the servo system. (C03 : REEL/CAPSTAN MOTOR & FG CHECK)
- RF system adjustment defect
 - ⇒ Readjust the RF system. (A1 : RF ADJUST)
- Worn PB head in the drum assembly
 - ⇒ After confirming the hours meter (H02 : DRUM RUNNING HOURS), replace the upper drum assembly or drum assembly as required.
(Refer to the Section 5-2, 5-5.)
- Adjustment defect in tape transport system or component part installation defect.
 - ⇒ Readjust the tape transport system or reinstall the parts.
(Refer to the Section 7.)
- EQ-72 board defect
- Drum assembly defect

For Check Failure

Change the playback portion on the tape, then recheck.

If no check failure occurs again, a trouble is considered to exist in the previously played back portion.

Cassette tape check

Check failure occurs if the no-recorded portion is played back or the recording format is not in Betacam SX.

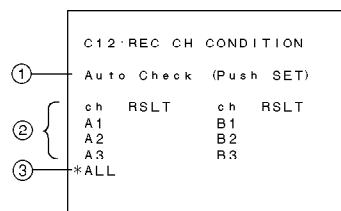
Moreover, check failure will also occur on the tape recorded by the failed Betacam SX VTR. Confirm that the tape can be correctly played back by the other normal operating Betacam SX VTR.

If no trouble is found on the played back tape

The possible cause below are considered.

- Heads clogging
 - ⇒ Perform steps (1) to (5) of “For Condition NG” on previous page.
- VTR’s servo system adjustment defect or circuit defect
 - ⇒ Readjust the servo system. (A0 : SERVO ADJUST)
 - ⇒ Check the servo system. (C03 : REEL/CAPSTAN MOTOR & FG CHECK)
- Brush/slip ring assembly defect or its part installation/connection defect
 - ⇒ Replace or reinstall the brush/slip ring assembly. (Refer to the Section 5-3, 5-4.)
- Harness (between EQ-72 board and drum assembly) connection defect
- RF system adjustment defect
 - ⇒ Readjust the RF system. (A1 : RF ADJUST)
- EQ-72 board defect
- Drum assembly defect

C12 : REC CH CONDITION



In this menu, the error condition for each channel is displayed in three steps (GRN, YEL, and RED) when the tape recorded based on a Betacam SX format is played back using the advance PB heads (A1, A2, B1, and B2) by tracking in the insert REC mode, and played back using the confidence PB heads (A3 and B3) in the crash REC mode.

C12 checks using the PB signal from the PB heads (A1, A2, A3, B1, B2, and B3) in the REC mode.

Notes

- Display the channel condition of the A3 and B3 heads in the CH CONDITION area on the FL display panel when selecting the CONFIDENCE PB MODE to ON in the crash REC mode.
- During normal operation, the tape is played back by non-tracking. Therefore, the condition for each channel cannot be confirmed using a CH CONDITION indicator.
- If abnormality exists in the servo system of a VTR, each menu of C1 : RF CHECK does not function normally.

Description of video monitor

- ① The display in this line changes. Each display and its meaning are described below.

Auto Check (Push SET) : Push the SET button to start the check.

Insert Check Tape : Insert a tape for check.

Auto Tracking... : Tracking is in an optimization process.

Auto Checking... : Check is in progress.

Auto Check Complete : Check is completed.

Auto Check Failure : Check failure

Condition NG : Error condition defect

Waiting ... : Insert the pre-recorded tape conformed with the Betacam SX format.

- ② Select using a * mark when checking the condition for each channel.

After the check is completed, the condition (GRN, YEL, or RED) is displayed on the right of a channel name. "RED" is displayed even if the check fails.

Note

"RSLT" indicates the result.

- ③ Select ALL when checking the condition for all channels.

During check, the condition in each channel is displayed for area ②.

After the check for all channels is completed, "GRN" is also displayed on the right of ALL if the condition for all channels is GRN. If there is at least one channel whose condition is YEL or RED, the worst condition is displayed on the right of ALL.

To execute the check

- (1) Insert the lignment tape SR5-1 (for a 525/60 system) or SR5-1P (for a 625/50 system).

Notes

- When the tape other than the specified format, such as blank tape, undefined format tape, etc. is inserted, the message “Waiting ...” is displayed on the video monitor. Be sure to insert the specified tape in which recorded by the Betacam SX format.
- The tape amount on the recorded portion that is played back after a cassette tape is inserted must exceed the check execution time. Before check, record a data on blank tape for two minutes or more. The recorded data is rewritten to new data in this menu execution.
The check execution time for each channel is usually about ten seconds and about 80 seconds in an ALL check.

- (2) Turn the JOG dial and move the * mark to the channel to be checked or ALL.

- Usually, select ALL.

- (3) Push the SET button.

- The tape is automatically recorded back in the REC mode. The check is then initiated.
- Message “Auto Tracking ...” or “Auto Checking ...” is displayed on the video monitor.
During ALL check execution, the check result in the channel is displayed every time a one-channel check is completed.
The FL display panel displays an ordinary time counter.
- To cancel the check, push the MENU button.

Notes

- Message “Insert Check Tape” is displayed on the video monitor when no cassette tape is inserted. The tape is automatically played back in the PLAY mode when a cassette tape is inserted. The check is then initiated.
- If message “Auto Check (Push SET)” is continuously displayed on the video monitor, the non-recorded portion on the tape is judged to be recorded from the beginning. Change the record position on the tape.
- Check operation cannot be properly performed in modes other than REC mode. Leave the check as it is until automatic check is completed. If modes other than REC mode are entered, the check cannot be performed any longer or the condition becomes “RED”.

- (4) Check to see the check result on the video monitor.

- If no abnormality is found, “GRN” is displayed on the right of the selected channel or ALL.
- Refer to the “For Check Failure” on page 3-34 when message “Auto Check Failure” is displayed on the video monitor.
- Refer to the “For Condition NG” on page 3-33 when message “Condition NG” is displayed on the video monitor or when conditions other than “GRN” are displayed on the right of the checked channel.

Notes

- Refer to the “For Check Failure” on page 3-34 when the check result in all channels is “RED” even if message “Condition NG” is displayed on the video monitor during ALL check execution.
- “GRN”, “YEL”, or “RED” is displayed in a FL display panel. In only the FL display panel, it cannot be confirmed whether the condition is NG or check failure when it is “RED”.
The check result for each channel is displayed when the JOG dial is turned after performing ALL check.

- (5) Push the MENU button when terminating the menu.

To execute the check again in this menu, return to step (2).

Note

To change the playback tape, push the SET button while pressing the EJECT button. The tape is then ejected without influencing the check result. Insert another tape and push the PLAY button. The check is then initiated. This operation does not coincide with the message on the video monitor.

Examples of display and operation

When ALL is selected in C12 : REC CH CONDITION.

Video monitor

FL display panel

```

C12:REC CH CONDITION
Auto Check (Push SET)
ch  HSLI    ch  HSLI
A1          B1
A2          B2
A3          B3
*ALL
    
```

C12 -ALL

(continued)



```

C12:REC CH CONDITION
Auto Check Complete
ch  RSLT    ch  RSLT
A1  GRN     B1  GRN
A2  GRN     B2  GRN
A3  GRN     B3  GRN
*ALL GRN
    
```

C12 -ALL GRN

- (1) ↓ Insert SR5-1/SR5-1P
(2) ↓ Select
(3) ↓ **SET**

- (4) ↓ Confirm
(5) ↓ **MENU**

```

C12:REC CH CONDITION
Auto Tracking ...
ch  RSLT    ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
    
```



```

C12:REC CH CONDITION
Auto Checking ...
ch  RSLT    ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
    
```



```

C12:REC CH CONDITION
Auto Check Complete
ch  RSLT    ch  RSLT
A1  GRN     B1  GRN
A2  GRN     B2  GRN
A3  GRN     B3  GRN
*ALL
    
```



```

C12:REC CH CONDITION
Auto Tracking ...
ch  RSLT    ch  RSLT
A1  GRN     B1  GRN
A2          B2
A3          B3
*ALL
    
```



(omitted)



(continue)



For Channel Condition NG

Check, recheck, and clean the drum (video heads) according to the procedures below.

- (1) If no abnormality is found during PB CH CONDITION check but abnormality is found during REC CH CONDITION check, perform as follows.

- Readjust the recording current.
- Record a data again for two minutes or more.
- Perform the REC CH CONDITION check.

If no abnormality is found, recheck and readjustment are completed.

Note

The data is overwritten on a cassette tape in REC CH CONDITION check.

Before check, record a data on a blank tape for two minute or more.

- (2) After that, perform the REC CH CONDITION check after recording a data again for two minutes or more. Perform the cleaning using a cleaning tape (in Section 4-2-1).

If no abnormality is found, the recheck is completed.

- (3) After that, perform the REC CH CONDITION check after recording a data again for two minutes or more. Perform the cleaning using a cleaning tape again (the amount of the tape used is 15 seconds).

If no abnormality is found, the recheck is completed.

- (4) After that, perform the REC CH CONDITION check after recording a data again for two minutes or more. Perform the cleaning with cleaning cloth (in Section 4-2-3).

If no abnormality is found, the recheck is completed.

If the error condition is not improved in the way mentioned above, the possible cause below are considered.

- VTR's servo system adjustment defect or circuit defect
 - ⇒ Readjust the servo system. (A0 : SERVO ADJUST)
 - ⇒ Check the servo system. (C03 : REEL/CAPSTAN MOTOR & FG CHECK)
- Worn PB head in the drum assembly
 - ⇒ After confirming the hours meter (H02 : DRUM RUNNING HOURS), replace the upper drum assembly or drum assembly as required.
(Refer to Section 5-2, 5-5.)
- Adjustment defect in tape transport system or component part installation defect.
 - ⇒ Readjust the tape transport system or reinstall the parts
(Refer to Section 7.)
- EQ-72 board defect
- Drum assembly defect

For Check Failure

Change the record portion on the tape, then recheck.

If no check failure occurs again, a trouble is considered to exist in the previously recorded portion.

Confirmation of cassette tape

Check failure occurs if the no-recorded portion is recorded or the recording format is not in Betacam SX. Moreover, check failure will also occur on the tape recorded by the failed Betacam SX VTR. Confirm that the tape recorded by this unit can be correctly played back.

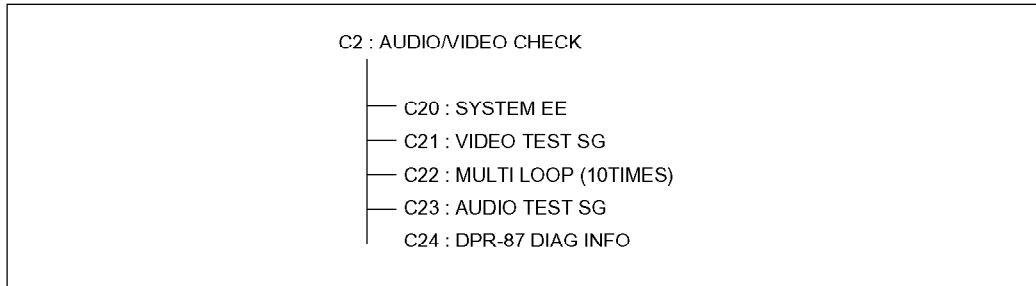
If no trouble is found on the played back tape

The possible cause below are considered.

- Heads clogging
 - ⇒ Perform steps (1) to (5) of “For Condition NG” on previous page.
- VTR’s servo system adjustment defect or circuit defect
 - ⇒ Readjust the servo system. (A0 : SERVO ADJUST)
 - ⇒ Check the servo system. (C03 : REEL/CAPSTAN MOTOR & FG CHECK)
- Brush/slip ring assembly defect or its part installation/connection defect
 - ⇒ Replace or reinstall the brush/slip ring assembly. (Refer to Section 5-3, 5-4.)
- Harness (between EQ-72 board and drum assembly) connection defect
- EQ-72 board defect
- Drum assembly defect

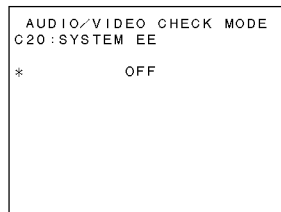
3-2-4. AUDIO/VIDEO CHECK Mode (C2)

The C2 : AUDIO/VIDEO CHECK mode has four menus that are useful for checking audio and video systems.



Menu Tree of Audio/Video Systems Check Mode

C20 : SYSTEM EE



This menu selects the system E-E function to be enabled or disable in the maintenance mode, and additionally selects a signal path from among the followings when the system E-E function is enabled.

OFF: Normal state (in which the system E-E state is not entered)

ECC-EE: Reflects the signal after it passes through IC35 (ECC encoder) on the DPR-87 board.

RF-EE: Reflects a signal in the EQ-72 board.

System E-E setting

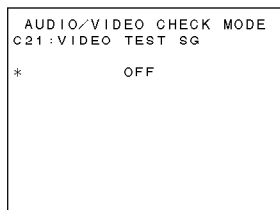
To set the system E-E function, press and turn the JOG dial, and display the desired setting.

The specified setting is maintained until the maintenance mode is terminated or the setting is changed.

Notes

- This menu is set to OFF when the maintenance mode is activated.
- Be sure to perform under the next state when selecting the system E-E to enable:
Eject a cassette tape

C21 : VIDEO TEST SG



This menu selects the operation in the maintenance mode of a video test signal generator incorporated into this unit.

OFF: The video test signal generator operation stops.

Except OFF: A video test signal generator outputs the selected signals (below).

100% color bars 75% color bars

75% reverse color bars

Bowtie Pulse and bar

Multi-burst H sweep

5-step Ramp

Shallow ramp Red signal

50% flat 100% flat

Black burst

Pathological check code

NTC7 (NTSC) ⇐ Only for 525/60 system

Line330 (625) ⇐ Only for 625/50 system

Setting of video test signal generator

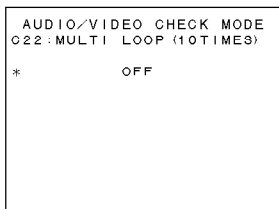
To set the system E-E function, press and turn the JOG dial, and display the desired setting.

This setting is valid until the maintenance mode is terminated. However, the C21 : VIDEO TEST SG setting is reset to OFF when the C22 : MULTI LOOP (10TIMES) setting is changed.

Notes

- This menu is set to OFF when the maintenance mode is activated.
- The output signal of a test signal generator can also be recorded on the tape. In this case, push the SET button and perform the recording operation with the white square is displayed in the upper-right position of the video monitor.

C22 : MULTI LOOP (10TIMES)



This menu selects the multi-loop function enabled or disabled in the maintenance mode, and additionally selects a video test signal when the multi-loop function is enabled.

The video test signal that can be selected is output from an internal video test signal generator. The video test signal is the same in type as one described in a C21 : VIDEO TEST SG menu.

OFF: Normal state (in which no multi-loop operation is performed)

Except OFF: The selected signal is output from a video test signal generator for multi-loop operation.

Multi-loop function setting

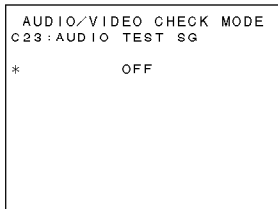
To set the system E-E function, press and turn the JOG dial, and display the desired setting.

This setting is valid until the maintenance mode is terminated. However, the C22 : MULTI LOOP (10TIMES) setting is reset to OFF when the C21 : VIDEO TEST SG setting is changed.

Notes

- This menu is set to OFF when the maintenance mode is activated.
- The output signal during multi-loop operation can also be recorded on the tape or hard disk. In this case, push the SET button and perform the recording operation with the white square is displayed in the upper-right position of the video monitor.

C23 : AUDIO TEST SG



This menu selects the operation in the maintenance mode of an audio test signal generator incorporated in this unit.

OFF: The audio test signal generator operation stops.

Except OFF: An audio test signal generator outputs the selected signals (below).

Silence

1 kHz sine 0 VU

1 kHz sine burst/1 field

1 kHz sine burst/2 field

1 kHz sine burst/5 field

1 kHz sine burst/8 field

1 kHz sine burst(10)

1 kHz sine burst(40)

Saw wave

Setting of audio test signal generator

To set the system E-E function, press and turn the JOG dial, and display the desired setting.

This setting is valid until the maintenance mode is terminated.

Notes

- This menu is set to OFF when the maintenance mode is activated.
- The output signal of a test signal generator can also be recorded on the tape. In this case, push the SET button and perform the recording operation with the white square is displayed in the upper-right position of the video monitor.

C24: DPR-87 DIAG INFO

```
AUDIO/VIDEO CHECK MODE
C24:DPR-87 DIAG INFO
DPR-87 DIAG. OK!
```

This function informs the result of the self-diagnosis of the DPR-87 board incorporated in to this unit. When a failure occurs on the DPR-87 board, this function guess the default IC but do not specified.

Note

“Error” may be displayed as the diagnosis result even if the boards except DPR-87 are defective.

An initialize check and something check are available as the self-diagnosis function.

In the initialize check, check the communication between SY2 CPU on the SY-260 board and the communication buses (PAD< STAT, STRB, and CS) of each IC.

Initialization data is transferred from SY2 CPU to each IC. After that, the initialization data set in each IC is read and compared with the initialization data transferred at first.

In the something check, a parity check, external memory check, and clock check are performed for the input signals of the following ICs, and the result of the self-diagnosis of each IC is displayed by reading from SY2 CPU on the SY-260 board.

IC to be treated for diagnosis

No.	Screen display	IC name	Reference
1	F-CONT	CXD8997R	IC3
2	DIGI FIL	CXD9025R	IC19
3	SX ENC	CXD8973BR	IC20
4	SX MEP	CXD8974AR	IC26
5	ECC ENC	CXD8946Q	IC35
6	OUTER	CXD8945BR	IC39
7	SX DEC	CXD9012AR	IC45

To display the self-diagnosis function result

- (1) Select the C24 : DPR-87 DIAG INFO menu.
- (2) To scroll the screen, turn the JOG dial.
To scroll the screen downward, turn the JOG dial downward.
To scroll the screen upward, turn the JOG dial upward.
- (3) Press the MENU button to terminate the menu after confirming the self-diagnosis result.

Screen display samples of check result

In case of normal

```

AUDIO/VIDEO CHECK MODE
C24:DPR-87 DIAG INFO

DPR-87 DIAG. OK!

INITIALIZE CHECK..
1.F-CONT  INIT.  OK
2.DIGI FIL  INIT.  OK
3.SX ENC   INIT.  OK
4.SX MEP   INIT.  OK
5.ECC ENC  INIT.  OK
6.OUTER    INIT.  OK
7.SX DEC   INIT.  OK

SOMETHINGCHECK..
11.F-CONT  CHECK. OK
12.DIGI FIL CHECK. OK
13.SX ENC   CHECK. OK
14.SX MEP   CHECK. OK
15.ECC ENC  CHECK. OK
16.OUTER    CHECK. OK
17.SX DEC   CHECK. OK

```

In case of abnormal

```

AUDIO/VIDEO CHECK MODE
C24:DPR-87 DIAG INFO

DPR-87 DIAG. ERROR!

INITIALIZE CHECK..
1.F-CONT  INIT.  OK
2.DIGI FIL  INIT.  OK
3.SX ENC   INIT.  NG
4.SX MEP   INIT.  OK
5.ECC ENC  INIT.  OK
6.OUTER    INIT.  OK
7.SX DEC   INIT.  OK

SOMETHINGCHECK..
11.F-CONT  CHECK. NG
    PARITY ERR  B-IN
    PARITY ERR  A-IN
12.DIGI FIL CHECK. OK
13.SX ENC   CHECK. NG
    PARITY ERR  MEP
14.SX MEP   CHECK. OK
15.ECC ENC  CHECK. OK
16.OUTER    CHECK. OK
17.SX DEC   CHECK. OK

```

} Displays NG for failure item.

} In case of NG, the detail data is displayed.

Detail description when the execution result is abnormal

INITIALIZE CHECK

The possible cause below is judged as an NG item. The numeral number in parentheses is the pin number connected to SY2 CPU.

- IC is defective.
- The foiled pattern on the board connecting IC and SY2 CPU on the SY-260 board is defective.
- The component part between IC and SY2 CPU on the SY-260 board is defective.

The numeral number in parentheses is the pin number connected to SY2 CPU.

1.F-CONT	INIT. NG	:	IC3 (Pins 109 to 116, and 118 to 121)
2.DIGI FIL	INIT. NG	:	IC19 (Pins 113 to 116, and 118 to 125)
3.SX ENC	INIT. NG	:	IC20 (Pins 128, 133 to 135, 141 to 144, and 146 to 149)
4.SX MEP	INIT. NG	:	IC26 (Pins 128, 133, 134, 141 to 144, and 146 to 149)
5.ECC ENC	INIT. NG	:	IC35 (Pins 45, and 49 to 59)
6.OUTER	INIT. NG	:	IC39 (Pins 9 to 16, and 20 to 23)
7.SX DEC	INIT. NG	:	IC45 (Pins 44 to 47, 53 to 59, and 62)

SOMETHING CHECK

The possible cause below is judged as an NG item.

- IC is defective.
- The foiled pattern on the board connecting IC and its connected IC is defective.
- The component part between IC and its connected IC is defective.
- Connected IC is defective.

The numeral number in parentheses is the pin number connected of the IC. The alphanumeric character in parentheses is the IC number to which each pin is connected.

11.F-CONT CHECK. NG	
PARITY ERR B-IN	: IC3 (Pins 94 to 101, and 103 to 106)
PARITY ERR A-IN	: IC3 (Pins 74 to 80, and 82 to 88), [IC45]
12.DIGI FIL CHECK. NG	
PARITY ERR A-IN	: IC19 (Pins 3 to 8, and 10 to 17), [IC3]
13.SX ENC CHECK. NG	
PARITY ERR MEP	: IC20 (Pins 165, 168 to 173, 175 to 179, 182 to 186, 189 to 192, and 195 to 199), [IC26]
PARITY ERR VIDEO	: } IC20 (Pins 88, 89, 92 to 99, 100, 101, 105, and 106), [IC19]
CLOCK ERR 13.5M	
CLOCK ERR 27M	
CLOCK ERR 54M	
CLOCK ERR 81M	
SDRAM ERR ALL	: IC20, [IC21 to IC24]

Note

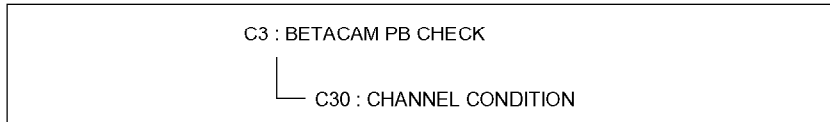
Displays "ALL" wherever an abnormal point occurs.

14.SX MEP CHECK. NG	
SDRAM ERR ALL	: IC26, [IC28 to IC31]
	Note
	Displays “ALL” wherever an abnormal point occurs.
INPUT ERR PARITY	: IC26 (Pins 238 to 241, 244 to 247, 250, and 251), [IC20]
INPUT ERR SYNC	: IC26 (Pin 238)
CLOCK ERR 81M	} IC26 (Pins 107, 111 to 113, 116, and 121 to 127)
CLOCK ERR 54M	
CLOCK ERR 27M	
CLOCK ERR 13.5M	
PLL ERR 81M	
PLL ERR 54M	
PLL ERR 27M	
15.ECC ENC CHECK. NG	
MACRO SEQ ERR	} IC35 (Data is abnormal)
EXT FIFO FULL WARN	
PACK2 NOT FIN ERR	
SDRAM ERR	: IC35, [IC36]
EXT FIFO ERR B	: IC35, [IC33]
EXT FIFO ERR A	: IC35, [IC32]
PARITY ERR SX-IN	: IC35 (Pins 60 to 69), [IC20]
PARITY ERR AUD-0	: IC35 (Pin 140)
PARITY ERR AUD-1	: IC35 (Pin 141)
16.OUTER CHECK. NG	
PARITY ERR FF	: IC39 (Pins 49, 50, 57 to 59, 62 to 66)
SDRAM ERR NT	: IC39, [IC42]
SDRAM ERR JOG	: IC39, [IC40, IC41]
17.SX DEC CHECK. NG	
SDRAM ERR ALL	: IC45, [IC46, IC47]
	Note
	Displays “ALL” wherever an abnormal point occurs.
PARITY ERR MEP	: IC45 (Internal connection of IC45)
PARITY ERR STREAM	: IC45 (Pins 88 to 95, 98, and 112)
CLOCK ERR 13.5M	} IC45 (Pins 99, 120 to 124, and 127 to 132)
CLOCK ERR 27M	
CLOCK ERR 54M	
CLOCK ERR 81M	

3-2-5. BETACAM PB CHECK Mode (C3)

The C3 : BETACAM PB CHECK mode is used to check the playback RF system based on a Betacam/Betacam SP format.

In this unit, one menu is available.



Menu Tree of BETACAM PB Check Mode

Note

Betacam/Betacam SP PB function of DNW-A28 is for NTSC (525/60) system.
Betacam/Betacam SP PB function of DNW-A28P is for PAL (625/50) system.
But the PB picture of the other video system is easily played back by selecting the setup menu.

C30 : CHANNEL CONDITION

This menu displays the RF level condition of video channels (Y and C) in three steps (GRN, YEL, and RED) when the tape recorded based on a Betacam/Betacam SP format is played back in the PLAY mode.

Note

If abnormality exists in the servo system of a VTR, the C30 : CHANNEL CONDITION menu does not function normally.

To execute the check

- (1) Push the SET button.
 - A white square is displayed in the upper-right position of the video monitor.
The FL display panel displays an ordinary time counter.
 - To cancel the check, push the MENU button.
- (2) Insert the cassette tape recorded according to the Betacam/Betacam SP format.
- (3) Push the PLAY button. (Playing back the tape in the PLAY mode.)
 - “>>>” is displayed on the video monitor.

Note

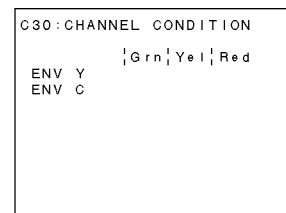
No check can be performed in modes other than PLAY. “>>>” is not displayed even if the portion recorded based on formats other than Betacam/Betacam SP or the non-recorded portion is played back in the PLAY mode.

- (4) Check to see that “>>>” is displayed in the “GRN” column of Y and C channels.
 - If “>>>” is displayed in columns other than “GRN”, refer to the “For Condition NG” on the next page.

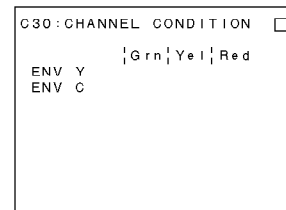
To terminate the check

- (5) Stop the tape playback operation, and then eject the cassette.
- (6) Push the MENU button.
 - The square displayed in the upper-right position of the video monitor disappears.
The FL display panel displays the former “C30-CHANNEL COND”.

Examples of display and operation

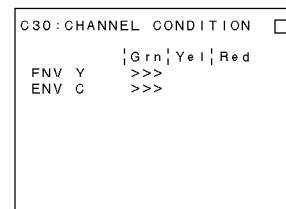


(1) ↓ [SET]



(2) ↓ Insert a recorded tape

(3) ↓ [PLAY]



(4) ↓ Check

(5) ↓ [STOP]

↓ [EJECT]

(6) ↓ [MENU]

For Condition NG

Check, recheck, and clean the drum (video heads) according to the procedures below.

- (1) Change the tape playback portion, then recheck.
If no abnormality is found, the recheck is completed.
- (2) Perform the cleaning using a cleaning tape (in Section 4-2-1) (the amount of the tape used is five seconds), then recheck.
If no abnormality is found, the recheck is completed.
- (3) Perform the cleaning using a cleaning tape again (the amount of the tape used is 15 seconds), then recheck.
If no abnormality is found, the recheck is completed.
- (4) Perform the cleaning with cleaning cloth (in Sections 4-2-3), then recheck.
If no abnormality is found, the recheck is completed.
If the condition described above is not improved, the abnormality below is considered to have occurred.

Abnormality on PB tape

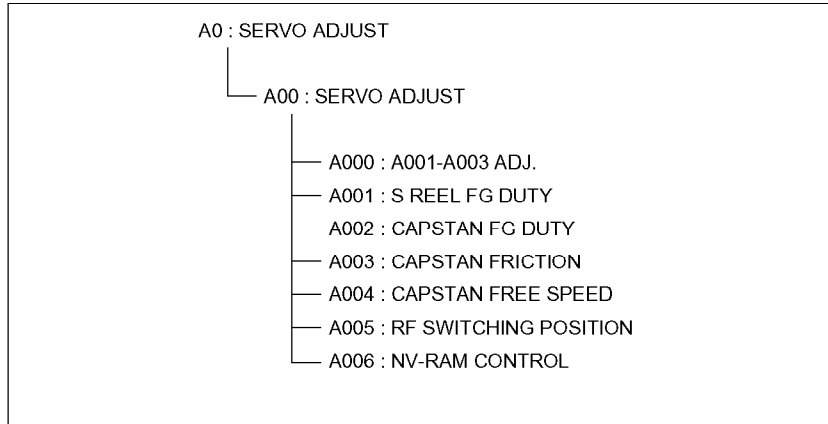
- The tape is damaged.
- The tape cannot be recorded properly.

Abnormality in this unit

- Adjustment defect of Betacam PB system (DM-114/114P board)
 - ⇒ Readjust the Betacam PB system. (A3 : BETACAM PB ADJUST)
(Refer to Section 3-2-9.)
- Adjustment defect in tape transport system or component part installation defect.
 - ⇒ Readjust the tape transport system or reinstall the parts.
(Refer to Section 7.)
- Worn PB head
 - ⇒ After confirming the hours meter (H2 : DRUM RUNNING HOURS), replace the upper drum assembly as required.
(Refer to Section 5-2.)
- Drum assembly defect
- EQ-72 board defect

3-2-6. SERVO ADJUST Mode (A0)

The A0 : SERVO ADJUST mode is used to adjust the servo system.



Menu tree in servo system adjustment mode

Note

The cassette tape is automatically ejected if the cassette tape inserted into this unit when the A00 : SERVO ADJUST menu is shifted to the lower-level menu.

A00 : SERVO ADJUST

```
SERVO ADJUST
*A000:A001-A003 ADJ.
A001:S REEL FG DUTY
A002:CAPSTAN FG DUTY
A003:CAPSTAN FRICTION
A004:CAPSTAN SPEED
A005:RF SWITCHING POS.
A006:NV-RAM CONTROL
```

A000 : A001-A003 ADJ.

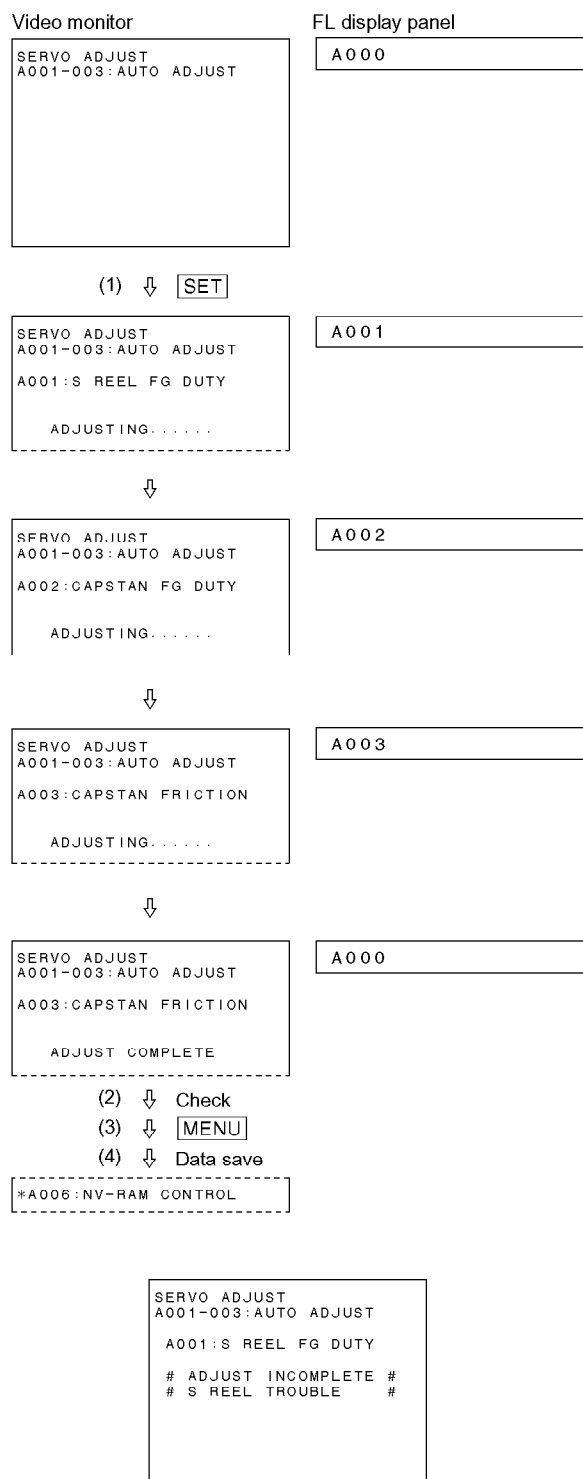
This menu is used to execute the adjustment menus below automatically and continuously.

A001 : S REEL FG DUTY
A002 : CAPSTAN FG DUTY
A003 : CAPSTAN FRICTION

To execute the adjustment menus

- (1) Press the JOG dial or SET button.
 - The automatic adjustment is initiated when the JOG dial or SET button is pushed. The execution time is about 30 seconds.
 - The adjustment menu name in execution and message “ADJUSTING.....” are displayed on the video monitor during automatic adjustment. Only the menu number is displayed in a FL display panel.
 - Message “ADJUST COMPLETE” is momentarily displayed on the video monitor when each adjustment menu is completed normally. Message “# ADJUST INCOMPLETE #” is displayed on the video monitor when no adjustment can be performed. The automatic adjustment is then interrupted. Refer to the “For Automatic Adjustment Failure” on page 2-16 when this message is displayed.
- (2) Confirm the adjustment result.
 - Message “ADJUST COMPLETE” remains displayed on the video monitor when all adjustments are completed normally.
- (3) Press the MENU button to terminate the menu.
- (4) To save the adjustment data in the NV-RAM of a servo system, execute the SAVE SERVO ADJUST DATA in an A006 : NV-RAM CONTROL menu.

Examples of display and operation



ex.: When failing the automatic adjustment

A001 : S REEL FG DUTY
A002 : CAPSTAN FG DUTY
A003 : CAPSTAN FRICTION

These menus are used to perform the automatic adjustments below.

- A001 : S reel FG duty adjustment
- A002 : Capstan FG duty adjustment
- A003 : Capstan friction adjustment

To execute the automatic adjustments

- (1) Press the JOG dial or SET button.
 - The automatic adjustment is initiated when the JOG dial or SET button is pushed. The execution time is about 15 seconds for A001 to A003.
 - Message “ADJUSTING.....” is displayed on only the video monitor during automatic adjustment.
- (2) Confirm the adjustment result.
 - Message “ADJUST COMPLETE” is displayed on the video monitor when the automatic adjustment is completed normally.
 - Message “# ADJUST INCOMPLETE #” is displayed on the video monitor when no adjustment can be performed. The automatic adjustment is then interrupted. Refer to the “For Automatic Adjustment Failure” on page 3-50 when this message is displayed.
- (3) Press the MENU button to terminate the menu.
- (4) To save the adjustment data in the NV-RAM of a servo system, execute the SAVE SERVO ADJUST DATA in an A006 : NV-RAM CONTROL menu.

Examples of display and operation

Example of A001 : S REEL FG DUTY

```
SERVO ADJUST
A001:S REEL FG DUTY
```

(1) ↓ **SET**

```
SERVO ADJUST
A001:S REEL FG DUTY

ADJUSTING.....
```

↓

```
SERVO ADJUST
A001:S REEL FG DUTY

ADJUST COMPLETE
```

(2) ↓ Check

(3) ↓ **MENU**

(4) ↓ Data save

```
*A006:NV-RAM CONTROL
```

```
SERVO ADJUST
A001:S REEL FG DUTY

# ADJUST INCOMPLETE #
# S REEL TROUBLE      #
```

ex.: When failing the automatic adjustment

A004 : CAPSTAN FREE SPEED

This menu is used to perform the automatic adjustment of a capstan free speed.

Notes

- It is necessary to perform this adjustment in both 525/60 and 625/50 system. (As for the 525/625 system switching, refer to Section 1-19-3.)
- In addition, it is necessary to perform this adjustment in both analog and digital modes in each system.

To execute the automatic adjustment

Note

Even though message “SET ALIGNMENT TAPE AND PUSH PLAY KEY” is displayed on the video monitor when this menu is opened, it is not necessary to push the PLAY button.

- (1) Insert an alignment tape matched with each system and mode.

SR2-1 (525/60 system, digital mode)

SR2-1P (625/50 system, digital mode)

CR2-1B (525/60 system, analog mode)

CR2-1B PS (625/50 system, analog mode)

- The adjustment is initiated when an alignment tape is inserted.
- Message “ADJUSTING.....” is displayed on only the LCD monitor during automatic adjustment.

Notes

- Be sure to use the specified alignment tape. If the specified cassette tape is not used, the adjustment cannot be properly performed even if message “ADJUST COMPLETE” is displayed after it is completed.
- The tape amount on the portion that can be played back after an alignment tape is inserted must exceed the adjustment execution time. The adjustment execution time is usually about 15 seconds.

- (2) Check the adjustment result.

- Message “ADJUST COMPLETE” is displayed on the video monitor when the automatic adjustment is completed normally. An alignment tape is ejected automatically.
- Message “# ADJUST INCOMPLETE #” is displayed on the video monitor when no adjustment can be performed. The automatic adjustment is then interrupted. Refer to the “For Automatic Adjustment Failure” on page 3-50 when this message is displayed.

- (3) Push the MENU button to terminate the menu.
- (4) To save the adjustment data in the NV-RAM of a servo system, execute the SAVE SERVO ADJUST DATA in an A006 : NV-RAM CONTROL menu.

Examples of display and operation

```
SERVO ADJUST
A004:CAPSTAN FREE SPEED

SET
ALIGNMENT TAPE
AND PUSH PLAY KEY
```

- (1) ↓ Insert SR2-1/SR2-1P/
CR2-1B/CR2-1B PS

```
SERVO ADJUST
A004:CAPSTAN FREE SPEED

ADJUSTING.....
```

↓

```
SERVO ADJUST
A004:CAPSTAN FREE SPEED

ADJUST COMPLETE
```

- (2) ↓ Check
- (3) ↓ **MENU**
- (4) ↓ Data save

```
*A006:NV-RAM CONTROL
```

```
SERVO ADJUST
A004:CAPSTAN FREE SPEED

# ADJUST INCOMPLETE #
CAPSTAN SERVO TROUBLE
```

ex.: When failing the automatic adjustment

A005 : RF SWITCHING POS.

This menu is used to adjust the RF switching position automatically or manually. Only the automatic adjustment is described below.

To execute the automatic adjustment

Note

It is necessary to adjust the unit in both 525/60 and 625/50 systems. (Regarding system selection, refer to Section 1-19-3.)

Alignment tapes SR2-1 (for a 525/60 system) and SR2-1P (for a 625/50 system) located in the beginning of time code 00:25:00:00 in advance is required for this adjustment.

If the specified cassette tape is not used, the adjustment cannot be properly performed even if message “ADJUST COMPLETE” is displayed after it is completed.

- (1) Make sure that a * mark is assigned to the “AUTO” display on the video monitor, and then push the JOG dial or SET button.
- (2) Insert alignment tape SR2-1 (for a 525/60 system) or SR2-1P (for a 626/50 system) located in the beginning of time code 00:25:00:00.
 - The adjustment is initiated when an alignment tape is inserted. The execution time is about 20 seconds.
 - Message “ADJUSTING.....” is displayed on only the video monitor during automatic adjustment.
- (3) Check the adjustment result.
 - Message “ADJUST COMPLETE” is displayed on the video monitor when the automatic adjustment is completed normally.
An alignment tape is ejected automatically.
 - Message “# ADJUST INCOMPLETE #” is displayed on the video monitor when no adjustment can be performed. The automatic adjustment is then interrupted. Refer to the “For Automatic Adjustment Failure” on page 3-50 when this message is displayed.
- (4) Push the MENU button to terminate the menu.
- (5) To save the adjustment data in the NV-RAM of a servo system, execute the SAVE SERVO ADJUST DATA in an A006 : NV-RAM CONTROL menu.

Examples of display and operation

Video monitor

```
SERVO ADJUST
A005:RF SWITCHING POS.

*AUTO

PG DATA:BDF5
```

(1) ↓ [SET]

```
SERVO ADJUST
A005:RF SWITCHING POS.

SET
SR2-1
ALIGNMENT TAPE
TC 00:25:00:00

PG DATA C000
```

(2) ↓ Insert SR2-1/SR2-1P

```
SERVO ADJUST
A005:RF SWITCHING POS.

ADJUSTING

PG DATA:BFFF
```

↓

```
SERVO ADJUST
A005:RF SWITCHING POS.

ADJUST COMPLETE

PG DATA:BDF7
```

(3) ↓ Check

(4) ↓ [MENU]

(5) ↓ Data save

```
*A006:NV RAM CONTROL
```

FL display panel

A0050

A011

A011

A0011

```
SERVO ADJUST
A005:RF SWITCHING POS.

# ADJUST INCOMPLETE #

PG DATA:C000
```

ex.: When failing the automatic adjustment

For Automatic Adjustment Failure

The circuit in which failure occurred can be traced to some degree by the trouble message displayed together when message “# ADJUST INCOMPLETE #” is displayed during execution of adjustment menus A000 to A005.

Note

The trouble message display indicates that no adjustment could be performed because the circuit described in this manual does not operate normally. Moreover, other circuits (e.g., control signal system) in which failure actually occurred may also exist.

A000 : A000-A003 ADJUST

Refer to the description of A001 and A003.

A001 : S REEL FG DUTY

When “S REEL FG AMP TROUBLE” is displayed

⇒ Check the S reel FG amplifier circuit on the SV-194A board.

When “S REEL DRIVER TROUBLE” is displayed

⇒ Check the S reel motor driver circuit on the SV-194A board.

A002 : CAPSTAN FG DUTY

When “CAPSTAN FG AMP TROUBLE” is displayed

⇒ Check the capstan FG amplifier circuit on the SV-194A board.

⇒ Check the capstan motor driver circuit on the SV-194A board.

A003 : CAPSTAN FRICTION

When “T REEL TROUBLE” is displayed

⇒ Check the function cam drive circuit on the SV-194A board.

⇒ Check the function cam sensor circuit on the SV-194A board.

When “SERVO TROUBLE” is displayed

⇒ Check the capstan motor drive circuit on the SV-194A board.

⇒ Check the capstan FG shaping circuit on the SV-194A board.

A004 : CAPSTAN FREE SPEED

Ensure that the played back tape is following alignment tape.

SR2-1 (for a 525/60 system, digital mode)

SR2-1P (for a 625/50 system, digital mode)

SR2-1 (for a 525/60 system, analog mode)

SR2-1P (for a 625/50 system, analog mode)

When “CAPSTAN SERVO TROUBLE” is displayed

⇒ Execute the capstan FG duty adjustment (A002 : CAPSTAN FG DUTY) again.

⇒ Check the capstan FG amplifier circuit and CTL amplifier circuit on the SV-194A board.

When “CAPSTAN DRIVER TROUBLE” is displayed

⇒ Check the capstan motor driver circuit on the SV-194A board.

A005 : RF SWITCHING POS.

Ensure that the played back tape is alignment tape SR2-1 (for a 525/60 system) or SR2-1P (for a 625/50 system).

A006 : NV-RAM CONTROL

The A006 : NV-RAM CONTROL menu is used to save the servo adjustment data adjusted in the SERVO ADJUST mode in the NV-RAM of a servo system.

CAUTION

Do not save the adjustment data in NV-RAM when abnormality is found during automatic adjustment (when “# ADJUST INCOMPLETE #” is displayed).

Note

When adjustment data was not stored in this menu, it returns to the state before adjustment if the power is turned off.

To execute the data save

- (1) Turn the JOG dial and move the * mark to “SAVE SERVO ADJUST DATA” on the video monitor.
 - In a FL display panel, NO OPERATION is displayed as “A0060”, and SAVE SERVO ADJUST DATA is displayed as “A0061”.
- (2) Push the JOG dial or SET button.
 - The data transmission is initiated when the SET button is pushed. The data transmission time is about ten seconds.
 - Message “SAVING.....” is displayed on the video monitor, and “A0061 00” is displayed in the FL display panel
- (3) Check that the data transmission is completed.
 - After the data transmission is completed, message “DATA SAVED” is displayed on the video monitor and “A0061 10” is displayed in the FL display panel.
- (4) Push the MENU button to terminate the menu.

Examples of display and operation

Video monitor

```
SERVO ADJUST
A006:NV-RAM CONTROL

*NO OPERATION
SAVE SERVO ADJUST DAT
```

(1) ↓ DIAL (↓)

```
SERVO ADJUST
A006:NV-RAM CONTROL

NO OPERATION
*SAVE SERVO ADJUST DATA
```

(2) ↓ SET

```
SERVO ADJUST
A006:NV-RAM CONTROL

NO OPERATION
*SAVE SERVO ADJUST DATA

SAVING.....
```

↓

```
SERVO ADJUST
A006:NV-RAM CONTROL

NO OPERATION
*SAVE SERVO ADJUST DATA

DATA SAVED
```

(3) ↓ Check

(4) ↓ MENU

FL display panel

A0060

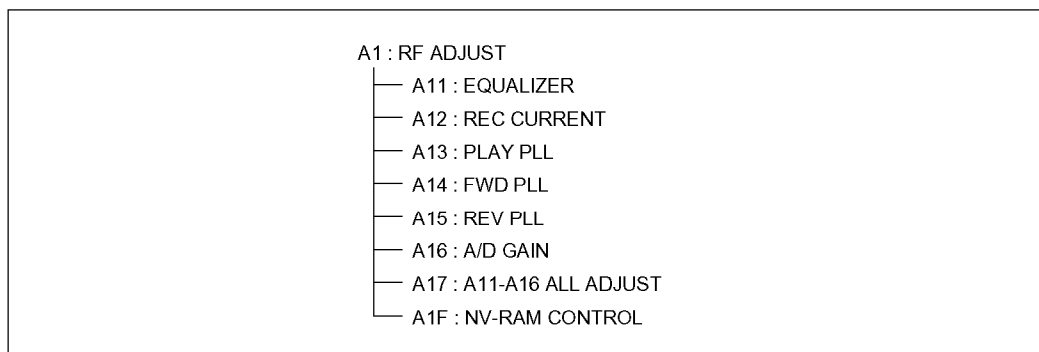
A0061

A0061 00

A0061 10

3-2-7. RF ADJUST Mode (A1)

The A1 : RF ADJUST mode is used to adjust the RF system of a VTR.5/A50P/A45P.



Menu Tree of RF System Adjustment Mode

Note

If abnormality exists in the servo system of a VTR, each menu in A1 : RF ADJUST does not function normally.

A11 : EQUALIZER
A12 : REC CURRENT
A13 : PLAY PLL
A14 : FWD PLL
A15 : REV PLL
A16 : A/D GAIN



These menus are used to perform the following automatic adjustments.

A11 : EQUALIZER

This menu automatically adjusts the PB head PB levels (VC) for A1, A2, A3, B1, B2, and B3 channels, and the gain (FQ) and phase (PH) of a PB equalizer.

A12 : REC CURRENT

This menu automatically adjusts the recording current levels for the REC heads (channels A and B).

A13 : PLAY PLL

This menu automatically adjusts the VCO free-running frequency in a PB PLL circuit for PLAY mode.

A14 : FWD PLL

This menu automatically adjusts the VCO free-running frequency in a PB PLL circuit for F FWD mode.

A15 : REV PLL

This menu automatically adjusts the VCO free-running frequency in a PB PLL circuit for REV mode.

A16 : A/D GAIN

This menu automatically adjusts the gain when a PB RF signal is converted from analog to digital.

Right side display is an example of the adjustment data during the STOP button is pressed.
Actually, adjustment data is displayed at the "xx" portion.

```

RF ADJUST MODE
A11: EQUALIZER

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A1  B1
A2  B2
A3  B3
*ALL

```

```

RF ADJUST MODE
A11: EQUALIZER

Auto Adjust (Push SET)

ch  VC EQ PH  ch  VC EQ PH
A1  xx xx xx  B1  xx xx xx
A2  xx xx xx  B2  xx xx xx
A3  xx xx xx  B3  xx xx xx
*ALL

```

A11: EQUALIZER

```

RF ADJUST MODE
A12: REC CURRENT

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A   B
*ALL

```

```

RF ADJUST MODE
A12: REC CURRENT

Auto Adjust (Push SET)

ch  VR      ch  VR
A   xx      B   xx
*ALL

```

A12: REC CURRENT

```

RF ADJUST MODE
A13: PLAY PLL

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A   B
*ALL

```

```

RF ADJUST MODE
A13: PLAY PLL

Auto Adjust (Push SET)

ch  VR      ch  VR
A   B
*ALL

```

A13: PLAY PLL

```

RF ADJUST MODE
A14: FWD PLL

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A   B
*ALL

```

```

RF ADJUST MODE
A14: FWD PLL

Auto Adjust (Push SET)

ch  VR      ch  VR
A   B
*ALL

```

A14: FWD PLL

```

RF ADJUST MODE
A15: REV PLL

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A   B
*ALL

```

```

RF ADJUST MODE
A15: REV PLL

Auto Adjust (Push SET)

ch  VR      ch  VR
A   B
*ALL

```

A15: REV PLL

```

RF ADJUST MODE
A16: A/D GAIN

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A   B
*ALL

```

```

RF ADJUST MODE
A16: A/D GAIN

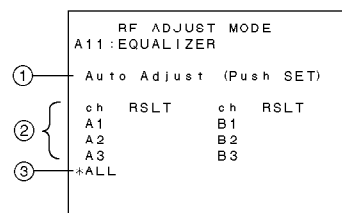
Auto Adjust (Push SET)

ch  VR      ch  VR
A   B
*ALL

```

A16: A/D GAIN

Description of video monitor



ex. A11 : EQUALIZER

- ① The display in this line changes. Each display and its meaning are described below.
Auto Adjust(Push SET) : Push the SET button to initiate the automatic adjustment.
Insert SR5-1 : Insert an alignment tape.
Insert Blank Tape : Insert the tape on which recording is possible.
Auto Tracking ... : Tracking is in an optimization process.
Auto Adjusting ... : Automatic adjustment is in progress.
Auto Adjust Complete : Automatic adjustment is completed.
Auto Adjust Failure : Automatic adjustment failure
Condition NG : Error condition NG
- ② To perform the automatic adjustment for each channel (circuit), select using a * mark.
The adjustment result (OK, NG, or FAIL) is displayed on the right of the channel name. “OK” is displayed if the adjustment can be performed normally. “NG” is displayed if the error condition is bad. “FAIL” is displayed if the automatic adjustment fails.

Note

“RSLT” indicates the result.

The adjustment data in each channel (circuit) is displayed while the STOP button is pressed during except adjustment.

Note

Do not push the STOP button during adjustment. The tape stops and the adjustment becomes impossible.
- ③ To perform the automatic adjustment in all channels (circuits) at a time, select ALL.
After the automatic adjustment in all channels (circuits) is completed, “OK” is displayed on the right of ALL if all channels (circuits) are OK. If there is one channel in which NG or failure occurs, “NG” or “FAIL” is displayed on the right of ALL. If both NG and failure occur in channels, “FAIL” is displayed.

To execute the adjustment

- (1) Insert the specified cassette tape.

Notes

- If the specified cassette tape is not used, the adjustment cannot be properly performed even if message “Auto Adjust Complete” is displayed after it is completed. In an A12 : REC CURRENT menu, insert the tape that can be recorded based on a Betacam SX format. In other menus, insert alignment tape SR5-1 (a 525/60 system) or SR5-1P (for a 625/50 system).
- Execute an A12 : REC CURRENT menu with the REC INHIBIT indicator turned off. The cassette tape is ejected when this indicator lights.
This indicator lights when the REC inhibit plug on the cassette tape is pushed or when the REC INHIBIT switch on the front panel is set to ON.
- Take care that the tape transport mode does not change during automatic adjustment.
Any adjustment cannot be properly performed in modes other than tape transport that was set automatically. Moreover, in modes other than tape transport, the automatic adjustment cannot be performed any longer or “FAIL” or “NG” is displayed as the adjustment result. Therefore, pay attention to the transport start position of the tape so that the end and beginning of the tape are not detected during adjustment. The minimum tape amount required for normal automatic adjustment is shown in the table below. However, the tape amount increases or decreases when abnormality occurs.

Menu	Ordinary adjustment time	Tape amount required (Transport mode)
A11 : EQUALIZER ①	About 2 min./ALL, about 15 sec./channel	Adjustment time (PLAY)
A12 : REC CURRENT ①	About 7 sec./ALL, about 3 sec./channel	Adjustment time (REC)
A13 : PLAY PLL	About 12 sec./ALL, about 10 sec./circuit	Adjustment time (PLAY)
A14 : FWD PLL	About 10 sec.	About 10 min. (F FWD)
A15 : REV PLL	About 10 sec.	About 11 min. (REV)
A16 : A/D GAIN ①	About 90 sec./ALL, about 10 sec./circuit	Adjustment time (PLAY)

In a menu with ①, tracking operation is performed.

- (2) Turn the JOG dial and move the * mark to the channel to be adjusted or ALL.

- Usually, select ALL.

- (3) Push the SET button.

- The tape runs automatically and the automatic adjustment is initiated.
- Message “Auto Tracking...” (only a menu in which tracking operation is performed) or “Adjusting...” is displayed on the video monitor.

Note

When ALL adjustment is performed in the menu in which tracking operation is carried out, the adjustment result of the channel is displayed every time one-channel (circuit) adjustment is completed.

- The FL display panel displays an ordinary time counter.
- To cancel the automatic adjustment, push the MENU button.
- Message “Insert SR5-1” or “Insert Blank Tape” is displayed on the video monitor when no cassette tape is inserted.

When a cassette tape is inserted, the tape runs automatically and the automatic adjustment is initiated.

Notes

- If message “Auto Adjust (Push SET)” is continuously displayed on the video monitor with the automatic adjustment initiated (the SET button pushed), the non-recorded portion on the tape is judged to be played back from the beginning. Change the playback position on the tape (not including an A12 : REC CURRENT menu).

- Do not touch the button or JOG dial, during automatic adjustment, that influences the tape transport.
Any adjustment cannot be properly performed when the tape transport state is changed. In this case, the automatic adjustment cannot be performed any longer or “FAIL” or “NG” is displayed as the adjustment result.

- (4) Check to see the result of automatic adjustment on the video monitor.
- If no abnormality is found, “OK” is displayed on the right of the selected channel (circuit).
 - Refer to the “For Condition NG/Automatic Adjustment Failure” on page 3-60 when “Condition NG” or “Auto Adjust Failure” is displayed on the video monitor.
 - To check the adjustment data, push the STOP button.

Note

“OK”, “NG”, or “FAIL” is displayed in a FL display panel.

The adjustment result for each channel (circuit) is displayed when the JOG dial is turned after ALL adjustment is completed.

- (5) To terminate the menu, push the MENU button.
To execute the automatic adjustment again in this menu, return to step (2).
- (6) To save the adjustment data in NV-RAM, execute SAVE ALL ADJUST DATA in an A1F : NV-RAM CONTROL menu.
To return the adjustment data to the state before adjustment, execute ALL DATA PREVIOUS in an A1F : NV-RAM CONTROL menu.

Note

Do not save the adjustment data in NV-RAM when abnormality is found during automatic adjustment (message “Auto Adjust Failure” or “Condition NG” is displayed).

Examples of display and operation

ex.: ALL is selected in
A11 : EQUALIZER.

```

RF ADJUST MODE
A11:EQUALIZER

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
    
```

- (1) ↓ Insert SR5-1/SR5-1P
- (2) ↓ Select
- (3) ↓ **SET**

```

RF ADJUST MODE
A11:EQUALIZER

Auto Tracking ...

ch  RSLT      ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
    
```

↓

```

RF ADJUST MODE
A11:EQUALIZER

Auto Adjusting ...

ch  RSLT      ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
    
```

↓

```

RF ADJUST MODE
A11:EQUALIZER (2/2)

Auto Adjust Complete

ch  RSLT      ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
    
```

↓

(omitted)

↓

```

RF ADJUST MODE
A11:EQUALIZER

Auto Adjust Complete

ch  RSLT      ch  RSLT
A1          B1
A2          B2
A3          B3
*ALL
    
```

- (4) ↓ Check
- (5) ↓ **MENU**
- (6) ↓ Data save

```

*A1F:NV-RAM CONTROL
    
```

ex.: ALL is selected in
A12 : REC CURRENT.

```

RF ADJUST MODE
A12:REC CURRENT

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

- (1) ↓ Insert a recording tape
- (2) ↓ Select
- (3) ↓ **SET**

```

RF ADJUST MODE
A12:REC CURRENT

Auto Adjusting ...

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

↓

```

RF ADJUST MODE
A12:REC CURRENT

Auto Adjust Complete

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

↓

```

RF ADJUST MODE
A12:REC CURRENT

Auto Adjusting ...

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

↓

```

RF ADJUST MODE
A12:REC CURRENT

Auto Adjust Complete

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

- (4) ↓ Check
- (5) ↓ **MENU**
- (6) ↓ Data save

```

*A1F:NV-RAM CONTROL
    
```

ex.: ALL is selected in
A13 : PLAY PLL.

```

RF ADJUST MODE
A13:PLAY PLL

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

- (1) ↓ Insert SR5-1/SR5-1P
- (2) ↓ Select
- (3) ↓ **SET**

```

RF ADJUST MODE
A13:PLAY PLL

Auto Adjusting ...

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

↓

```

RF ADJUST MODE
A13:PLAY PLL

Auto Adjust (Push SET)

ch  RSLT      ch  RSLT
A          B
*ALL
    
```

- (4) ↓ Check
- (5) ↓ **MENU**
- (6) ↓ Data save

```

*A1F:NV-RAM CONTROL
    
```

A17 : A11-A16 ALL ADJUST

This menu executes the automatic adjustment of A11 to A16 described previously in the following order.

A13: PLAY PLL
A16: A/D GAIN
A11: EQUALIZER
A14: FWD PLL
A15: REV PLL
A12: REC CURRENT

To execute the automatic adjustment

- (1) Insert alignment tape SR5-1 (for a 525/60 system) or SR5-1P (for a 625/50 system) that was rewound to the beginning of the tape.

Note

Be sure to use the specified alignment tape.

If the specified cassette tape is not used, the adjustment cannot be performed properly.

- (2) Push the SET button.
 - The automatic adjustment in a PB system is initiated when the SET button is pushed.
 - The video monitor during adjustment is displayed in the same way as when the adjustment is executed independently. If message “Condition NG” or “Auto Adjust Failure” is not displayed, the adjustment in a PB system is completed after about four seconds.
The alignment tape is rewound when the adjustment is completed. Message “Set a blank tape and push SET button for REC CURRENT adjustment” is displayed on the video monitor.
- (3) Eject the alignment tape.
- (4) Insert the cassette tape on which recording is possible.
- (5) Push the SET button.
 - The automatic adjustment (A12 : REC CURRENT) in a REC system is initiated when the SET button is pushed.
 - The video monitor during adjustment is displayed in the same way as when the adjustment is executed independently. If message “Condition NG” or “Auto Adjust Failure” is not displayed, the adjustment in a REC system is completed after several seconds.
- (6) Check to see that message “Auto Adjust Complete” is displayed on the video monitor.
 - Check the adjustment data from each menu.

Note

If abnormality exists during adjustment, message “Condition NG” or “Auto Adjust Failure” is displayed on the video monitor in the same way as when the adjustment is executed independently. The automatic adjustment stops in the adjustment menu. Message “A17-ALL FAIL” or “A17-ALL NG” is displayed in a FL display panel.

- Refer to the “For Condition NG/Automatic Adjustment Failure” on page 3-60 when message “Condition NG” or “Auto Adjust Failure” is displayed.
- To check the adjustment data, press the STOP button.

- (7) Push the MENU button.
 - To execute readjustment, push the MENU button. Select again once the menu is completed.

- (8) To save the adjustment data in NV-RAM, execute SAVE ALL ADJUST DATA in an A1F : NV-RAM CONTROL menu.
To return the adjustment data to the state before adjustment, execute ALL DATA PREVIOUS in an A1F : NV-RAM CONTROL menu.

Note

Do not save the adjustment data in NV-RAM when abnormality is found during automatic adjustment (when message “Auto Adjust Failure” or “Condition NG” is displayed).

Examples of display and operation

Video monitor

```
RF ADJUST MODE
A17:A11-A10 ALL ADJUST
Auto Adjust (Push SET)
```

- (1) ↓ Insert SR5-1/SR5-1P
(2) ↓ **SET**

```
RF ADJUST MODE
A17:A11-A16 ALL ADJUST
A13:PLAY PLL
Auto Adjusting
ch RSLT ch RSLT
A B
*ALL
```

↓
(omitted)
↓

```
RF ADJUST MODE
A17:A11-A16 ALL ADJUST
A16:A/D GAIN
Auto Adjusting
ch RSLT ch RSLT
A B
*ALL
```

↓
(omitted)
↓

```
RF ADJUST MODE
A17:A11-A16 ALL ADJUST
A11:EQUALIZER
Auto Adjusting
ch RSLT ch RSLT
A B
*ALL
```

↓
(omitted)
↓
(continue)

FL display panel

A17-PUSH SET BIN

(continued)

```
RF ADJUST MODE
A17:A11-A10 ALL ADJUST
Set a blank tape and
push SET button for
REC CURRENT adjustment.
```

- (3) ↓ **EJECT**
(4) ↓ Insert a recording tape
(5) ↓ **SET**

```
RF ADJUST MODE
A17:A11-A16 ALL ADJUST
A12:REC CURRENT
Auto Adjusting
ch RSLT ch RSLT
A B
*ALL
```

↓
(omitted)
↓

```
RF ADJUST MODE
A17:A11-A16 ALL ADJUST
Auto Adjust Complete
```

A17-ALL OK

- (6) ↓ Check
(7) ↓ **SET**
(8) ↓ Data save

```
*A1F:NV-RAM CONTROL
```

For Condition NG/Automatic Adjustment Failure

Confirm in the procedure below when message “Condition NG” or “Auto Adjust Failure” is displayed during execution of adjustment menus A11 to A17.

- (1) Confirm whether the specified alignment tape is used.
If the specified alignment tape is not used, execute the automatic adjustment by the specified one.
SR5-1 for 525/60 system, SR5-1P for 625/50 system
- (2) Clean the drum (rotary head) referring to the “For Condition NG” on page 3-44.
This operation is not required when the drum has been already cleaned.
- (3) Perform the automatic adjustment menu A17 when message “Condition NG” or “Auto Adjust Failure” is displayed during execution of menus other than menu A17 or A13.
If no abnormality is found, the adjustment is completed.

If the message “Condition NG” is displayed, the possible cause below are considered.

- VTR’s servo system adjustment defect or circuit defect
 - ⇒ Readjust the servo system. (A0 : SERVO ADJUST)
 - ⇒ Check the servo system. (C03 : REEL/CAPSTAN MOTOR & FG CHECK)
- RF system adjustment defect
 - ⇒ Readjust the RF system. (A1 : RF ADJUST)
- Worn PB head in the drum assembly
 - ⇒ After checking the hours meter (H02 : DRUM RUNNING HOURS), replace the upper drum assembly or drum assembly as required. (Refer to Section 5-2, 5-5.)
- Adjustment defect in tape transport system or component part installation defect.
 - ⇒ Readjust the tape transport system or reinstall the parts. (Refer to Section 7.)
- EQ-72 board defect
- Drum assembly defect

Or if the message “Auto Adjust Failure” is displayed, the possible above and following cause are considered.

- Brush/slip ring assembly defect or its part installation/connection defect
 - ⇒ Replace or reinstall the brush/slip ring assembly. (Refer to Section 5-3, 5-4.)
- Harness (between EQ-72 board and drum assembly) connection defect

A1F : NV-RAM CONTROL

The A1F : NV-RAM CONTROL menu is used to save the RF adjustment data adjusted in the RF ADJUST mode in NV-RAM. The adjustment data of A30 : EQ VR adjusted in the BETACAM PB ADJUST mode is also saved in this menu.

The current adjustment data can return to the former state when “ALL DATA PREVIOUS” is selected before the adjustment data is saved in NV-RAM.

Notes

- Do not save the adjustment data in NV-RAM when abnormality is found during automatic adjustment (when message “Auto Adjust Failure” or “Condition NG” is displayed).
- When the adjustment data was not stored in this menu, it returns to the state before adjustment if the power is turned off.

To execute the menu

- (1) Turn the JOG dial and move the * mark on the video monitor as described below.
To save the adjustment data after adjustment:
⇒ “SAVE ALL ADJUST DATA”
To return to the adjustment data before adjustment
⇒ “ALL DATA PREVIOUS”
 - In a FL display panel, “SAVE ALL ADJUST DATA” and “ALL DATA PREVIOUS” are displayed as messages “SAVE ALL ADJUST” and “ALL DATA PREVIOUS”, respectively.
- (2) Push the SET button.
 - The data transmission is initiated when the SET button is pushed.
 - Message “Saving ...” or “Loading ...” is displayed on the video monitor, and message “SAVING” or “LOADING” is displayed in the FL display panel.
- (3) Confirm that the data transmission is completed.
 - After data transmission is completed, message “Save Complete” or “Load Complete” is displayed on the video monitor, and message “SAVE COMPLETE” or “LOAD COMPLETE” is displayed in the FL display panel.
- (4) Push the MENU button to terminate the menu.

Examples of display and operation

Video monitor

A1F:NV-RAM CONTROL
*NO OPERATION
SAVE ALL ADJUST DATA
ALL DATA PREVIOUS

(1) ↓ DIAL (↻)

A1F:NV-RAM CONTROL
NO OPERATION
*SAVE ALL ADJUST DATA
ALL DATA PREVIOUS

(2) ↓ SET

A1F:NV-RAM CONTROL
Saving ...

↓

A1F:NV-RAM CONTROL
Save Complete

(3) ↓ Check

(4) ↓ MENU

FL display panel

NO OPERATION

SAVE ALL ADJUST

SAVING

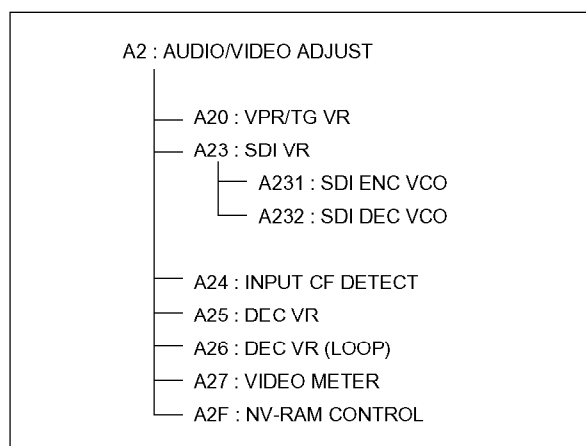
SAVE COMPLETE

3-2-8. AUDIO/VIDEO ADJUST Mode (A2)

The A2 : AUDIO/VIDEO ADJUST mode is used to adjust the audio and video systems.

This unit has seven menus.

In A23 : SDI VR menu, two submenus.



Menu Tree of Audio/Video Systems Adjustment Mode

CAUTION

Do not change the adjustment data carelessly. This may cause a trouble. For the actual adjustment, refer to the adjustment method described in Section 9.

If you have changed the adjustment data carelessly, execute ALL DATA PREVIOUS in an A2F : NV-RAM CONTROL menu or turn off the power of this unit without selecting an A2F : NV-RAM CONTROL menu.

Never execute SAVE ALL ADJUST DATA.

The adjustment menus other than submenus of A23 and menu A24 are used for manual adjustment.

In the submenus of A23 and menu A24, automatic adjustment (AUTO) or manual adjustment (MANUAL) can be selected.

For the automatic adjustment, refer to the operation example described in each menu.

To change the adjustment data manually

- Turn the JOG dial on the video monitor and move the * mark to the item to be adjusted.
Turn the JOG dial in the FL display panel and display the item to be adjusted.
- Press and turn the JOG dial.
The adjustment data then increases or decreases.

To execute the automatic adjustment

- Turn the JOG dial on the video monitor and move the * mark to "MANUAL".
Turn the JOG dial in the FL display panel and display "MANUAL".
 - Press and turn the JOG dial downward. Message "Auto (Push SET Button)" is then displayed on the video monitor, and message "PUSH SET" is displayed on the FL display panel.
 - The automatic adjustment is executed when the SET button is pressed.
 - Only the display on the video monitor changes as described below. The displayed data value also changes.
- | | |
|------------------------|--------------------------------------|
| Auto adjusting .. : | Automatic adjustment is in progress. |
| Auto Adjust Complete : | Automatic adjustment is completed. |
| Auto Adjust Failure : | Automatic adjustment fails. |

To return the adjustment data to the former state

Execute ALL DATA PREVIOUS in an A2F : NV-RAM CONTROL menu.

Note

The current adjustment data can not return to the former state after executing SAVE ALL DATA ADJUST DATA.

To memorize the adjustment data

Execute SAVE ALL ADJUST DATA in an A2F : NV-RAM CONTROL menu.

A20 : VPR/TG VR

AUDIO/VIDEO ADJUST MODE	
A20:VPR/TG VR	
*REF 1st FLD DET	80
VIDEO LEVEL	80
INT 4FSC FREQ	80

(525/60 System)

AUDIO/VIDEO ADJUST MODE	
A20:VPR/TG VR	
*VIDEO LEVEL	80
INT 4FSC FREQ	80

(625/50 System)

This menu is used to adjust the reference signal and analog video output systems on the VPR-34 and TG-191 boards. In 525/60 and 625/50 systems, the displayed adjustment items differ.

The adjustment item below can be adjusted in only a 525/60 system.

Adjustment item	Description
REF 1ST FLD DET	First-field detection timing of reference signal

The adjustment item below must be adjusted in both 525/60 and 625/50 systems.

Note

As for the 525/625 system switching, refer to Section 1-19-3.

Adjustment item	Description
VIDEO 1/2 LEVEL	Composite video output (1/2) level
INT 4FSC FREQ	Free-running frequency of internal reference signal 4fsc

A23 : SDI VR

AUDIO/VIDEO ADJUST MODE	
A23:SDI VR	
*A231:SDI ENC VCO	
A232:SDI DEC VCO	

This menu is used to adjust the VCO free-running frequency of SDI input/output interfaces.

Note

Before adjustment, turn the power on and warm up the unit more than ten minutes.

A231 : SDI ENC VCO

This submenu is used for an SDI output interface (SDI encoder).

Note

When select this submenu, mute the SDI output signal.

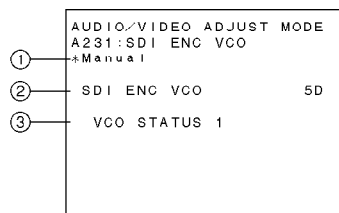
A232 : SDI DEC VCO

This submenu is used for an SDI input interface (SDI decoder).

Note

When select this submenu, mute the SDI input signal.

Description of video monitor



ex. A231 : SDI ENC VCO

- ① The adjustment mode (manual and automatic) or the messages during automatic adjustment are displayed in this line.

Manual : Adjustment mode is set to the manual adjustment.

Auto (Push SET Button) : Press the SET button to initiate the automatic adjustment.

Auto Adjusting ... : Automatic adjustment is in progress.

Auto adjust Complete : Automatic adjustment is completed.

Auto Adjust Failure : Automatic adjustment fails.

Note

The adjustment data can be manually changed even if message “Auto (Push SET Button)” is displayed.

- ② The adjustment item and adjustment data value are displayed in this line.

- ③ The VCO status is displayed as “0” or “1”.

Change of adjustment mode

The relation between the adjustment mode and display is shown in the table below.

Adj. mode	video monitor	FL display panel
Manual adjustment	Manual	MANUAL
Automatically adjustable	Auto (Push SET Button)	PUSH SET

- (i) Turn the JOG dial upward and move the * mark to line ① on the video monitor. (On the FL display panel, “MANUAL” or “PUSH SET” is displayed.)
- (ii) Press and turn the JOG dial.
- Turn it downward. : Manual \Rightarrow Automatic
- Turn it upward. : Manual \Leftarrow Automatic

To execute the automatic adjustment

- (1) Display “Auto (Push SET Button)” on the video monitor and “PUSH SET” in the FL display panel referring to the “Change of adjustment mode” on page 3-64.
- (2) The automatic adjustment is executed when the SET button is pressed.
 - The display on the video monitor changes to “Auto Adjusting...”. The displayed data value also changes.
 - The display in the FL display panel does not change.

- (3) Check to see that the automatic adjustment completion and VCO status on the video monitor.
 - Message “Auto Adjust Complete” is displayed when the automatic adjustment is completed.

Note

A slight time difference may occur from when message “Auto Adjust Complete” is displayed until the VCO status is displayed as “1”.

Note

Refer to the “For Automatic Adjustment Failure” below when message “Auto Adjust Failure” is displayed.

- (4) To terminate the menu, press the MENU button.
To execute the automatic adjustment again in this menu, return to step (2).
- (5) To save the adjustment data in NV-RAM, execute SAVE ALL ADJUST DATA in an A2F : NV-RAM CONTROL menu.
To return the adjustment data to the state before adjustment, execute ALL DATA PREVIOUS in an A2F : NV-RAM CONTROL menu.

For automatic adjustment failure

It can suppose that there is something wrong with the SDI-23 board.

Caution during manual adjustment

When performing the manual adjustment, set the adjustment data to 27.0 ± 0.1 MHz at TP700 on the SDI-23 board (for A231 : SDI ENC VCO) or at TP200 on the SDI-23 board (for A232: SDI DEC VCO) using the frequency counter.

Note

For the manual adjustment, refer to the “To change the adjustment data manually” on page 3-62.

Examples of display and operation

Examples of A231 : SDI ENC VCO

Video monitor

```
AUDIO/VIDEO ADJUST MODE
A231:SDI ENC VCO
*Manual
SDI ENC VCO          74
VCO STATUS 0
```

FL display panel

MANUAL

(1) ↓ DIAL (↓)

```
A231:SDI ENC VCO
*Auto (Push SET button)
SDI ENC VCO          74
VCO STATUS 0
```

PUSH SET

(2) ↓ SET

```
A231:SDI ENC VCO
*Auto Adjusting ...
SDI ENC VCO          00
VCO STATUS 0
```

PUSH SET

↓
(omitted)
↓

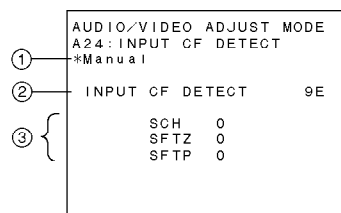
```
A231:SDI ENC VCO
*Auto Adjust Complete
SDI ENC VCO          50
VCO STATUS 1
```

PUSH SET

(3) ↓ Check
(4) ↓ MENU
(5) ↓ MENU
↓ Data save

```
*A2F:NV-RAM CONTROL
```

A24 : INPUT CF DETECT



This menu is used to adjust the color frame detection timing of a composite video input signal.

Preparation (refer to Section 9) is required for the adjustment.

Note

This adjustment is necessary to perform both 525/60 and 625/50 systems. (As for the 525/625 system switching, refer to Section 1-19-3.)

Description of video monitor

- ① The adjustment mode (manual and automatic adjustments) or the messages during automatic adjustment are displayed in this line.

Manual : Adjustment mode is set to the manual adjustment.

Auto (Push SET Button) : Press the SET button to initiate the automatic adjustment.

Auto Adjusting ... : Automatic adjustment is in progress.

Auto adjust Complete : Automatic adjustment is completed.

Auto Adjust Failure : Automatic adjustment fails.

Note

The adjustment data can be manually changed even if message "Auto (Push SET Button)" is displayed.

- ② The adjustment item and adjustment data value are displayed in this line.
- ③ Each status is displayed as "0" or "1".
0: When the specification is not satisfied
1: When the specification is satisfied
(For SFTP, the status is displayed in alternate "0" and "1" when the specification is satisfied.)

Change of adjustment mode

The relation between the adjustment mode and display is shown in the table below.

Adj. mode	video monitor	FL display panel
Manual adjustment	Manual	MANUAL
Automatically adjustable	Auto (Push SET Button)	PUSH SET

- (i) Turn the JOG dial upward and move the * mark to line ① on the video monitor. (On the FL display panel, “MANUAL” or “PUSH SET” is displayed.)
- (ii) Press and turn the JOG dial.
Turn it downward. : Manual ⇔ Automatic
Turn it upward. : Manual ⇔ Automatic

To execute the automatic adjustment

- (1) Display “Auto (Push SET Button)” on the video monitor and “PUSH SET” in the FL display panel referring to the “Change of adjustment mode” described above.
- (2) The automatic adjustment is executed when the SET button is pressed.
 - The display on the video monitor changes to “Auto Adjusting...”. The displayed data value also changes.
 - The display in the FL display panel does not change.
- (3) Confirm the automatic adjustment completion and each status on the video monitor.
 - Message “Auto Adjust Complete” is displayed when the automatic adjustment is completed.
 - Status for SCH and SFTZ are displayed as “1”.
 - For SFTP is displayed in alternate “0” and “1”.

Note

If the preparation for adjustment is not proper, message “Auto Adjust Failure” is displayed.

- (4) To terminate the menu, press the MENU button.
To execute the automatic adjustment again in this menu, return to step (2).
- (5) To save the adjustment data in NV-RAM, execute SAVE ALL ADJUST DATA in an A2F : NV-RAM CONTROL menu.
To return the adjustment data to the state before adjustment, execute ALL DATA PREVIOUS in an A2F : NV-RAM CONTROL menu.

Examples of display and operation

Video monitor

```
AUDIO/VIDEO ADJUST MODE
A24: INPUT CF DETECT
*Manual

INPUT CF DETECT      9E

SCH   0
SFTZ  0
SFTP  0
```

FL display panel

MANUAL

(1) ↓ DIAL(Press↓)

```
AUDIO/VIDEO ADJUST MODE
A24: INPUT CF DETECT
*Auto (Push SET button)

INPUT CF DETECT      9E

SCH   0
SFTZ  0
SFTP  0
```

PUSH SET

(2) ↓ SET

```
AUDIO/VIDEO ADJUST MODE
A24: INPUT CF DETECT
*Auto Adjusting ...

INPUT CF DETECT      00

SCH   0
SFTZ  0
SFTP  0
```

PUSH SET

↓
(omitted)
↓

```
AUDIO/VIDEO ADJUST MODE
A24: INPUT CF DETECT
*Auto Adjust Complete

INPUT CF DETECT      85

SCH   1
SFTZ  1
SFTP  1
```

PUSH SET

(3) ↓ Check

(4) ↓ MENU

(5) ↓ MENU

↓ Data save

```
*A2F: NV-RAM CONTROL
```

Caution during manual adjustment

When performing the manual adjustment, check the adjustment data range in which the SCH status is set to “1” and set the adjustment data to the intermediate value.

Note

For the manual adjustment, refer to the “To change the adjustment data manually” on page 3-62.

A25 : DEC VR

AUDIO/VIDEO ADJUST MODE	
A25:DEC VR	
*VIDEO GAIN	80
PEDESTAL	00

This menu is used to adjust the composite video input system.

Note

This adjustment is necessary to perform both 525/60 and 625/50 systems. (As for the 525/625 system switching refer to Section 1-19-3.)

Adjustment item	Description
VIDEO GAIN	Composite video input level
PEDESTAL	Composite video input pedestal clamp level

Note

The adjustment data in an A25 : DEC VR menu is used in common with the same adjustment item in an A26 : DEC VR (LOOP) menu.

A26 : DEC VR (LOOP)

AUDIO/VIDEO ADJUST MODE	
A26:DEC VR (LOOP)	
*VIDEO GAIN	80

This menu is used to adjust the composite video input system. The most suitable signal (refer to the table below) for adjustment is output from an internal video test signal generator, and the composite video input system can be adjusted with the multi-loop function activated.

Note

This adjustment is necessary to perform both 525/60 and 625/50 systems.

Adjustment item	Test signal
VIDEO GAIN	100% Color Bars

Note

The adjustment data in an A26 : DEC VR (LOOP) menu is used in common with the same adjustment item in an A25 : DEC VR menu.

A27 : VIDEO METER

AUDIO/VIDEO ADJUST MODE	
A27:VIDEO METER	
*Manual	
VIDEO METER	A9
LEVEL 0	

This menu is used for the calibration of video meter on the FL display panel.

Before adjustment, inputs the reference video signal to the VIDEO INPUT connector on the connector panel, and set the unit into the EE mode.

Description of video monitor

- The adjustment mode (manual and automatic adjustments) or the messages during automatic adjustment are displayed in this line.
Manual : Adjustment mode is set to the manual adjustment.
Auto (Push SET Button) : Press the SET button to initiate the automatic adjustment.
Auto Adjusting ... : Automatic adjustment is in progress.
Auto adjust Complete : Automatic adjustment is completed.
Auto Adjust Failure : Automatic adjustment fails.

Note

The adjustment data can be manually changed even if message "Auto (Push SET Button)" is displayed.

- The adjustment item and adjustment data value are displayed in this line.
- When the reference video signal is not input, the message "LEVEL 0" is displayed.

Change of adjustment mode

The relation between the adjustment mode and display is shown in the table below.

Adj. mode	video monitor	FL display panel
Manual adjustment	Manual	MANUAL
Automatically adjustable	Auto (Push SET Button)	PUSH SET

- (i) Turn the JOG dial upward and move the * mark to line ① on the video monitor. (On the FL display panel, “MANUAL” or “PUSH SET” is displayed.)
- (ii) Press and turn the JOG dial.

Turn it downward. :	Manual ⇨ Automatic
Turn it upward. :	Manual ⇐ Automatic

To execute the automatic adjustment

- (1) Display “Auto (Push SET Button)” on the video monitor and “PUSH SET” in the FL display panel referring to the “Change of adjustment mode” described above.
- (2) The automatic adjustment is executed when the SET button is pressed.
 - The display on the video monitor changes to “Auto Adjusting...”. The displayed data value also changes.
 - The display in the FL display panel does not change.
- (3) Check to see that the automatic adjustment completion and each status on the video monitor.
 - Message “Auto Adjust Complete” is displayed when the automatic adjustment is completed.

Note

If the preparation for adjustment is not proper, message “Auto Adjust Failure” is displayed.

- (4) To terminate the menu, press the MENU button. To execute the automatic adjustment again in this menu, return to step (2).
- (5) To save the adjustment data in NV-RAM, execute SAVE ALL ADJUST DATA in an A2F : NV-RAM CONTROL menu. To return the adjustment data to the state before adjustment, execute ALL DATA PREVIOUS in an A2F : NV-RAM CONTROL menu.

Caution during manual adjustment

When performing the manual adjustment, check the adjustment data range in which the display of video meter is set to the intermediate value (five lines).

Note

For the manual adjustment, refer to the “To change the adjustment data manually” on page 3-62.

Examples of display and operation

Video monitor

```
AUDIO/VIDEO ADJUST MODE
A27:VIDEO METER
*Manual
VIDEO METER          A9
```

FL display panel

MANUAL

(1) ↓ DIAL(Press↓)

```
AUDIO/VIDEO ADJUST MODE
A27:VIDEO METER
*Auto (Push SET button)
VIDEO METER          A9
```

PUSH SET

(2) ↓ SET

```
AUDIO/VIDEO ADJUST MODE
A27:VIDEO METER
*Auto Adjusting...
VIDEO METER          00
```

PUSH SET

↓
(omitted)
↓

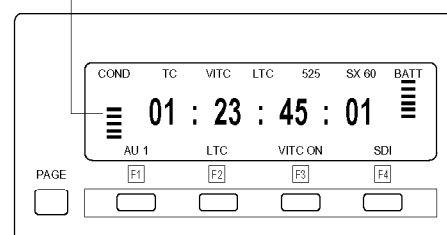
```
AUDIO/VIDEO ADJUST MODE
A27:VIDEO METER
*Auto Adjust Complete
VIDEO METER          A5
```

PUSH SET

(3) ↓ Check
(4) ↓ MENU
(5) ↓ MENU
↓ Data save

```
*A2F : NV-RAM CONTROL
```

Video meter



FL display panel

A2F : NV-RAM CONTROL

The A2F : NV-RAM CONTROL menu is used to save the audio/video adjustment data adjusted in the AUDIO/VIDEO ADJUST mode in NV-RAM.

The current adjustment data can return to the state before adjustment when “ALL DATA PREVIOUS” is selected before the adjustment data is saved in the NV-RAM.

Note

When the adjustment data was not stored in this menu, it returns to the state before adjustment if the power is turned off.

To execute the menu

- (1) Turn the JOG dial and move the * mark on the video monitor as described below.
 - To save the adjustment data after adjustment
⇒ “SAVE ALL ADJUST DATA”
 - To return to the adjustment data before adjustment
⇒ “ALL DATA PREVIOUS”
 - In a FL display panel, “SAVE ALL ADJUST DATA” and “ALL DATA PREVIOUS” are displayed as messages “SAVE ALL ADJUST” and “ALL DATA PREVIOUS”, respectively.
- (2) Push the SET button.
 - The data transmission is initiated when the SET button is pushed.
 - Message “Saving...” or “Loading...” is displayed on the video monitor, and message “SAVING” or “LOADING” is displayed in the FL display panel.
- (3) Check to see that the data transmission is completed.
 - After data transmission is completed, message “Save Complete” or “Load Complete” is displayed on the video monitor, and message “SAVE COMPLETE” or “LOAD COMPLETE” is displayed in the FL display panel.
- (4) Push the MENU button to terminate the menu.

Examples of display and operation (In data save)

Video monitor

```
AUDIO/VIDEO ADJUST MODE
A2F:NV-RAM CONTROL

*NO OPERATION
SAVE ALL ADJUST DATA
ALL DATA PREVIOUS
```

FL display panel

NO OPERATION

(1) ↓ DIAL (↓)

```
AUDIO/VIDEO ADJUST MODE
A2F:NV-RAM CONTROL

NO OPERATION
*SAVE ALL ADJUST DATA
ALL DATA PREVIOUS
```

SAVE ALL ADJUST

(2) ↓ SET

```
AUDIO/VIDEO ADJUST MODE
A2F:NV-RAM CONTROL

Saving ...
```

SAVING

↓

```
AUDIO/VIDEO ADJUST MODE
A2F:NV-RAM CONTROL

Save Complete
```

SAVE COMPLETE

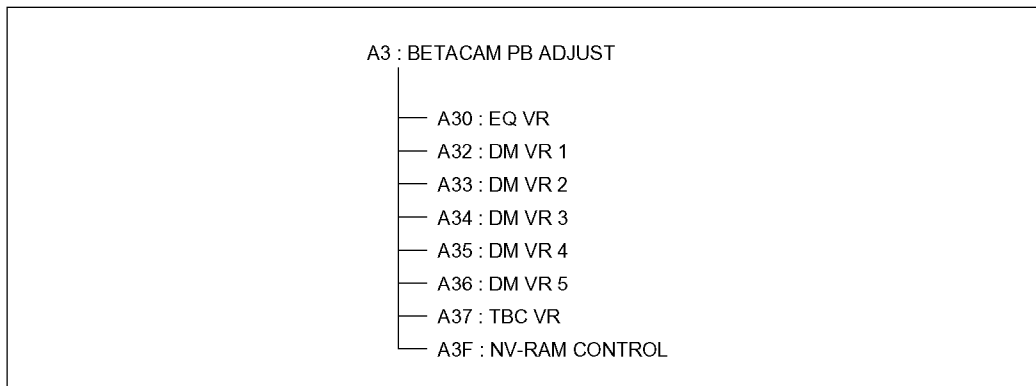
(3) ↓ Check

(4) ↓ MENU

3-2-9. BETACAM PB ADJUST Mode (A3)

The A3 : BETACAM PB ADJUST mode is used to adjust the PB system based on a Betacam/Betacam SP format.

This mode contains the eight menus below.



Menu Tree of BETACAM PB Adjustment Mode

CAUTION

Do not change the adjustment data carelessly. This may cause a trouble. For the actual adjustment, refer to the adjustment method described in the section 9.

If you have changed the adjustment data carelessly, execute ALL DATA PREVIOUS in an A3F : NV-RAM CONTROL menu or turn off the power of this unit without selecting an A3F : NV-RAM CONTROL menu.

Never execute SAVE ALL ADJUST DATA.

Note

Betacam/Betacam SP PB function of DNW-A28 is for NTSC (525/60) system.

Betacam/Betacam SP PB function of DNW-A28P is for PAL (625/50) system.

But the PB picture of the other video system is easily played back by selecting the setup menu.

To change the adjustment data manually

(1) Turn the JOG dial on the video monitor and move the * mark to the adjustment item.

Turn the JOG dial in the FL display panel and display the item to be adjusted.

(2) Press and turn the JOG dial. The adjustment data then increases or decreases.

To return the adjustment data to the former state

Execute ALL DATA PREVIOUS in an A3F : NV-RAM CONTROL menu.

Note

The current adjustment data can not return to the former state after executing SAVE ALL DATA ADJUST DATA.

To save the adjustment data

Execute SAVE ALL ADJUST DATA in an A3F : NV-RAM CONTROL menu.

Note

In a FL display panel, the adjustment item name on the video monitor is omitted during display as follows :

RF GAIN ⇒ GAIN
GUARD BAND ⇒ GUARD
METAL ⇒ M
OXIDE ⇒ O

A30 : EQ VR

This menu is used to adjust the gain of the PB RF amplifier (EQ-72 board) based on a Betacam/Betacam SP format.

There are adjustment items for metal and oxide tapes. Each adjustment item is provided proportionally to the number of heads (Y-A, Y-B, C-A, and C-B).

Example of display

BETACAM PB ADJUST MODE		
A30:EQ VR		
*RF GAIN METAL-Y-A		58
RF GAIN METAL-Y-B		59
RF GAIN METAL-C-A		48
RF GAIN METAL-C-B		4D
RF GAIN OXIDE-Y-A		72
RF GAIN OXIDE-Y-B		75
RF GAIN OXIDE-C-A		5A
RF GAIN OXIDE-C-B		5C

A32 : DM VR 1

This menu is used to adjust the frequency characteristics of a primary cosine equalizer (DM-114/114P board).

There are adjustment items for metal and oxide tapes. Each adjustment item is provided proportionally to the number of heads (Y-A, Y-B, C-A, and C-B).

Example of display

BETACAM PB ADJUST MODE		
A32:DM VR 1		
*EQ1 METAL-Y-A		7F
CQ1 METAL Y D		81
EQ1 METAL-C-A		77
EQ1 METAL-C-B		81
EQ1 OXIDE-Y-A		AD
EQ1 OXIDE-Y-B		AF
EQ1 OXIDE-C-A		94
EQ1 OXIDE-C-B		9D

A33 : DM VR 2

This menu is used to adjust the frequency characteristics of a secondary cosine equalizer (main)(DM-114/114P board).

There are adjustment items for metal and oxide tapes. Each adjustment item is provided proportionally to the number of heads (Y-A, Y-B, C-A, and C-B).

Example of display

BETACAM PB ADJUST MODE		
A33:DM VR 2		
*MAIN METAL-Y-A		BC
MAIN METAL-Y-B		BC
MAIN METAL-C-A		91
MAIN METAL-C-B		91
MAIN OXIDE-Y-A		A8
MAIN OXIDE-Y-B		A8
MAIN OXIDE-C-A		A0
MAIN OXIDE-C-B		A0

A34 : DM VR 3

This menu is used to adjust the frequency characteristics of a secondary cosine equalizer (sub) (DM-114/114P board).

There are adjustment items for metal and oxide tapes. Each adjustment item is provided proportionally to the number of heads (Y-A, Y-B, C-A, and C-B).

Example of display

BETACAM	PB	ADJUST	MODE
A34:DM VR 3			
*SUB	METAL-Y-A		A4
SUB	METAL-Y-B		A4
SUB	METAL-C-A		70
SUB	METAL-C-B		70
SUB	OXIDE-Y-A		B6
SUB	OXIDE-Y-B		B6
SUB	OXIDE-C-A		AA
SUB	OXIDE-C-B		AA

A35 : DM VR 4

This menu is used to adjust the guard band width and to set the DC offset level of an over-modulation compensation circuit.

There are adjustment items for metal and oxide tapes. Each adjustment item is provided proportionally to the number of video channels (Y and C).

Example of display

BETACAM	PB	ADJUST	MODE
A35:DM VR 4			
*GUARD	BAND METAL-Y		22
GUARD	BAND METAL-C		1A
GUARD	BAND OXIDE-Y		26
GUARD	BAND OXIDE-C		2F
OMC	DC METAL-Y		E4
OMC	DC METAL-C		D0
OMC	DC OXIDE-Y		D0
OMC	DC OXIDE-C		D0

A36 : DM VR 5

This menu is used to adjust the dropout threshold level and to set the RF envelope threshold level.

Metal and oxide tapes are used for the adjustment of a dropout threshold level. The adjustment item is provided proportionally to the number of video channels (Y and C).

Green /yellow (H) and yellow/red (L) limits are used for the setting of an RF envelope threshold level.

Example of display

BETACAM	PB	ADJUST	MODE
A36:DM VR 5			
*DO TH	METAL-Y		1A
DO TH	METAL-C		12
DO TH	OXIDE-Y		2E
DO TH	OXIDE-C		27
ENV-TH-H			20
ENV-TH-L			10

A37 : TBC VR

This menu is used to set the read clock timing and the data of a PB VISC phase detection circuit on the DM-114/114P board.

The adjustment item is provided proportionally to the number of video channels (Y and C) for read clock timing setting.

Example of display

BETACAM	PB	ADJUST	MODE
A37:TBC VR1			
*SQ-Y	RZ		4B
SQ-C-RZ			6F
VISC	PHASE		06

A3F : NV-RAM CONTROL

The A3F : NV-RAM CONTROL menu is used to save the Betacam PB adjustment data adjusted in the BETACAM PB ADJUST mode in NV-RAM.

The current adjustment data can return to the state before adjustment when “ALL DATA PREVIOUS” is selected before the adjustment data is recorded in the NV-RAM.

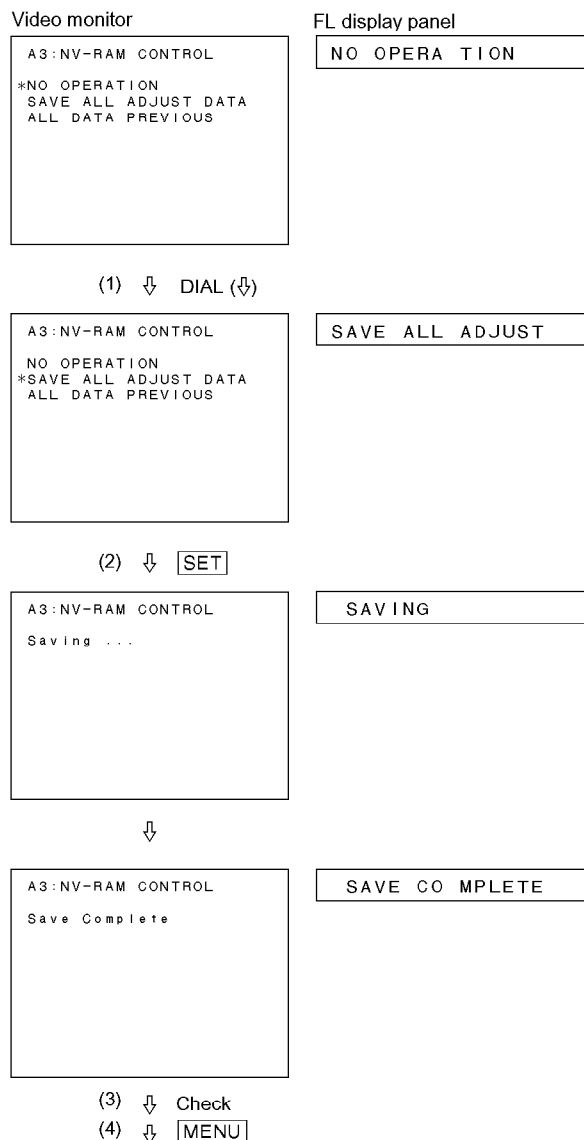
Note

When the adjustment data was not stored in this menu, it returns to the state before adjustment if the power is turned off.

To execute the menu

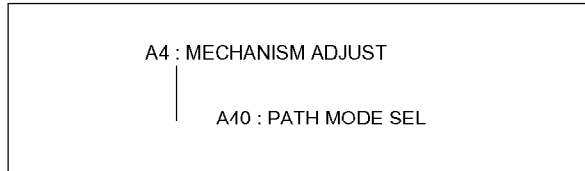
- (1) Turn the JOG dial and move the * mark on the video monitor as described below.
 - To save the adjustment data after adjustment
⇒ “SAVE ALL ADJUST DATA”
 - To return to the adjustment data before adjustment
⇒ “ALL DATA PREVIOUS”
 - In a FL display panel, “SAVE ALL ADJUST DATA” and “ALL DATA PREVIOUS” are displayed as messages “SAVE ALL ADJUST” and “ALL DATA PREVIOUS”, respectively.
- (2) Push the SET button.
 - The data transmission is initiated when the SET button is pushed.
 - Message “Saving...” or “Loading...” is displayed on the video monitor, and message “SAVING” or “LOADING” is displayed in the FL display panel.
- (3) Confirm that the data transmission is completed.
 - After data transmission is completed, message “Save Complete” or “Load Complete” is displayed on the video monitor, and message “SAVE COMPLETE” or “LOAD COMPLETE” is displayed in the FL display panel.
- (4) Push the MENU button to terminate the menu.

Examples of display and operation (In data save)



3-2-10. MECHANISM ADJUST Mode (A4)

The A4 : MECHANISM ADJUST mode is used to adjust the mechanism. This mode contains the one menu below.



Menu Tree of MECHANISM Adjustment Mode

A40 : PATH MODE SEL

```

MECHANISM ADJUST MODE
A40:PATH MODE SEL
*Switching PB
  
```

This menu sets the PB mode for confirming and adjusting video tracking. Switching PB and full PB modes are available for setting.

A PB signal is output to the test point (TP101) on the SV-194A board by the REC head when the tape is played back with this menu opened. (The signal output from this test point becomes an envelope waveform.)

In the switching PB mode, only the data area (helical track) based on an SX format is played back.

In the full PB mode, the overlap portion before and behind the data area based on an SX format is played back.

The switching PB mode is always set when the menu is opened.

PB mode setting

To set the PB mode, press and turn the JOG dial, and display the desired setting.

Menu operation

A white square is displayed in the upper-right position of the superimpose picture when the SET button is pressed after the switching PB and full PB modes are set. The unit then enters the ordinary operation state (in which the ordinary operation of this unit except a menu system can be performed.)

In this state, play back the specified alignment tape, and confirm and adjust the video tracking.

However, character information (time code or operation status) superimposed during ordinary operation is not displayed.

To return to the former state, press the MENU button.

Note

For the video tracking confirmation and adjustment, refer to “7-5. Video Tracking Confirmation and Adjustment”.

3-3. Error Logger Display Mode (M2)

3-3-1. Outline

This unit has an error log function that records the error generated or detected in this unit.

The error logger display mode is used to superimpose the contents (data) of the error log on the LCD monitor and video monitor. The ordinary display mode (refer to Section 3-3-2) and the setting mode (refer to Section 3-3-3) that displays the menu to limit the error log display are available in this unit. The calendar/clock date incorporated into this unit can be set in the setting mode.

Activation and Termination

The two methods below are used to activate the error logger display mode. To terminate the error logger display mode, push the MENU button in the display mode. It returns to the operation state before activation when the error logger display mode is terminated.

- A. Select an M2 : ERROR LOGGER menu in the maintenance mode.
- B. Press the MENU button while pressing the SHIFT button on the front panel during ordinary operation.

Error Log

The recorded error log is classified into three categories: TAPE ERROR, WARNING, and CONDITION. (The error log belongs to the three types.)

Each log is constituted by a message, error generation date, and time code.

The message varies depending on the type of a log.

The error generation date is the date based on the calendar and clock of this unit. (The year is omitted.)

The time code records the time code data of the VTR side which is stored in this unit at the error occurs.

The maximum number of stored log is 100. If the number of log exceeds 100, the contents of oldest error log is erased sequentially.

TAPE ERROR

An error code and error message are recorded as a message when the error (error codes 01 to 99) related to a VTR and system occurs.

When multiple sub-error messages are displayed, the three sub-error messages from the top are recorded. For the error message, refer to Section 2.

WARNING

The warning log below is recorded in an error log.

- REFERENCE MISSING

This message is recorded when no signal is input to the REF VIDEO (reference video signal) connector after the power is turned on. But, this message is not recorded in the error log when the setting of 105 : REF SYSTEM ALARM in a setup menu to OFF.

CONDITION

The condition logs below are recorded in an error log.

- VIDEO PB CONDITION RED

This message is recorded when the channel condition becomes red during video PB operation.

- AUDIO PB CONDITION RED

This message is recorded when the channel condition becomes red during audio PB operation.

3-3-2. Display Mode

The operation in the ordinary display mode is described based on a display example on the video monitor.

The log number/total log count is displayed in the second line. “(001/000)” is displayed when no log exists.

The third to tenth lines (eight lines) are the area where logs are displayed. The three-digit number on the left indicates the log number. The contents of a log are displayed on its right.

A calendar/clock is displayed on the lowest line.

Notes

- The top screen on the right is the example displayed when the error logger mode is first activated after the power is turned on. The second-time or later screen is displayed with the preceding display completed.
- In a FL display panel, only the log number/total log count (e.g., “ERR LOG 001/03”) is displayed.

JOG dial

To display the log number not displayed on the screen, turn the JOG dial and move the * mark.

CTL/TC/U-BIT button

On this screen, the whole message is displayed partially. To display other information (date and time code), push the CTL/TC/U-BIT button.

F FWD button

The whole contents of a log to which the * mark was set are displayed while the F FWD button is pressed.

The category (error code for TAPE ERROR and DISK ERROR) of an error log is displayed in the third line. Messages are displayed in the fourth and fifth lines, and sub-error messages in the sixth to eighth lines. The date (not including the year) is displayed in the ninth line, and time code in the tenth line.

Other logs can be displayed in this display state when the JOG dial is turned with the F FWD button pressed.

RESET button

The recorded all logs are erased when the RESET button is pushed.

Note

Usually, do not erase any log.

There may be some error logs that are useful for confirmation of the progress when a trouble occurs or that are important in preventing a trouble from occurrence.

Examples of display and operation

```

      ERROR LOGGER
      (001/003)
*001 REEL TROUBLE-1
  002 TAPE TENSION ERROR
  003 INTERNAL I/F ERROR

'99 07 03 09:23:00
    
```

↓ DIAL (↓)

```

      ERROR LOGGER
      (002/003)
  001 REEL TROUBLE-1
*002 TAPE TENSION ERROR
  003 INTERNAL I/F ERROR
    
```

↓ [CTL/TC/UB]

```

      ERROR LOGGER
      (002/003)
  001 01/01 13:12:56 REEL
*002 03/03 15:34:12 TAPE
  003 05/05 17:56:34 INTE
    
```

↓ [CTL/TC/UB]

```

      ERROR LOGGER
      (002/003)
  001 00:01:02:03 REEL TR
*002 01:02:03:04 TAPE TE
  003 20:10:00:20 INTERNA
    
```

↓ [F FWD]

```

      ERROR LOGGER
      (002/003)
      ERROR-06
      TAPE TENSION ERROR

DATE : 03/03 15:34:12
TC   : 01:02:03:04

'99 07 03 09:23:20
    
```

↓ [F FWD] + DIAL (↓)

```

      ERROR LOGGER
      (003/003)
      ERROR-92
      INTERNAL INTERFACE
      ERROR

DATE : 05/05 17:56:34
TC   : 20:10:00:20

'99 07 03 09:23:25
    
```

↓

```

      ERROR LOGGER
      (003/003)
  001 00:01:02:03 REEL TR
  002 01:02:03:04 TAPE TE
*003 20:10:00:20 INTERNA
    
```

↓ [RESET]

```

      ERROR LOGGER
      (001/000)

*

'99 07 03 09:23:30
    
```

SET button

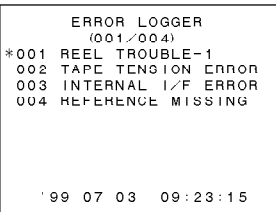
A white square mark is displayed in the upper-right position of the video monitor when the SET button is pushed. The unit then enters the normal operation state (in which the normal operation of this unit except a menu system can be performed). However, the character information (time code or operation status) superimposed during normal operation is not displayed in this case.
To return to the former state, push the MENU button.

MENU button

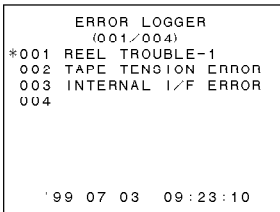
The display returns to the error logger display mode when the MENU button is pushed with the white square displayed in the upper-right position of the video monitor.
Pushing the MENU button in the error logger display mode terminates the error logger display mode.

Limited-display screen

For the error log of a category that is set to OFF in the menu of setting mode (refer to Section 3-3-3), information items other than a log number are not displayed. However, the whole display using the F FWD button is not influenced by the setting.

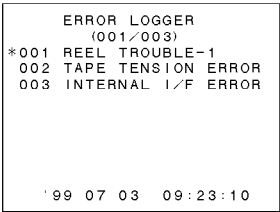


Ordinary Screen
(No limited-display)

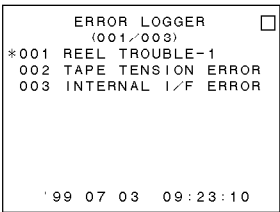


Only Warning Turned Off

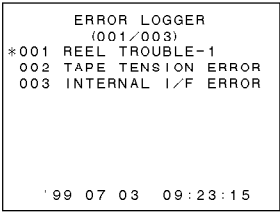
Examples of display and operation



↓ [SET]



↓ [MENU]



3-3-3. Setting Mode

The setting mode is used to display a menu that limits the display of an error log. In this menu, the display can be turned on and off for each error log category. A calendar/clock can also be set in this menu.

Notes

- The top and second screens on the right are the examples displayed when the error logger mode and setting mode are first activated after the power is turned on. The second-time or later screen is displayed with the preceding display completed.
- A white square mark is displayed in the upper-right position of the LCD monitor as in the display mode when the SET button is pushed in the setting mode (except when “Push SET Button” is displayed during calendar/clock setting). The unit then enters the normal operation state (in which the normal operation of this unit except a menu system can be performed). The former state is returned when the MENU button is pushed.

Entering the setting mode

Push the SET button while pressing the STOP button in the display mode.

Returning to the display mode

Push the SET button again while pressing the STOP button or push the MENU button.

Setting menu

The seventh to tenth lines on the video monitor are a setting menu. The display in the display mode is left in the first to fifth lines.

Each setting when the power is turned on is all ON.

The error log belonging to a category is limited in display when each item is set to OFF. (Refer to the “Limited-display screen” on the previous page.)

The changed setting is valid until the power is turned off. How to change the setting is described below.

- (1) Turn the JOG dial and move the * mark to the category to be changed in setting.

Notes

- In a FL display panel, the contents of the *-marked line are displayed on the video monitor.
 - Turn the JOG dial continuously downward for the calendar/clock setting. (Refer to the next page.)
- (2) To change the setting from ON to OFF, press and turn the JOG dial upward. To change it from OFF to ON, press and turn the JOG dial downward.
 - (3) To change the setting of other categories, repeat steps (1) and (2).
 - (4) Push the MENU button to terminate the setting mode.

Example of display and operation

Display mode

```

ERROR LOGGER
(001/003)
*001 REEL TROUBLE-1
002 TAPE TENSION ERROR
003 INTERNAL I/F ERROR

'99 07 03 09:23:15

```

Setting mode ↓ [STOP] + [SET]

```

ERROR LOGGER
(001/003)
001 REEL TROUBLE-1
002 TAPE TENSION ERROR
003 INTERNAL I/F ERROR
-----
*TAPE ERROR                ON
WARNING                    ON
CONDITION                  ON

'99 07 03 09:23:17

```

↓ DIAL(↓)

```

ERROR LOGGER
(001/003)
001 REEL TROUBLE-1
002 TAPE TENSION ERROR
003 INTERNAL I/F ERROR
-----
TAPE ERROR                ON
*WARNING                  ON
CONDITION                  ON

'99 07 03 09:23:20

```

↓ DIAL(Press↓)

```

ERROR LOGGER
(001/003)
001 REEL TROUBLE-1
002 TAPE TENSION ERROR
003 INTERNAL I/F ERROR
-----
TAPE ERROR                ON
*WARNING                  OFF
CONDITION                  ON

'99 07 03 09:23:22

```

↓ DIAL(Press↓)

```

ERROR LOGGER
(001/003)
001 REEL TROUBLE-1
002 TAPE TENSION ERROR
003 INTERNAL I/F ERROR
-----
TAPE ERROR                ON
*WARNING                  ON
CONDITION                  ON

'99 07 03 09:23:24

```

Calendar/clock setting

The calendar/clock's date and time of this unit can be adjusted in the setting mode as described below.

In a display/operation example on the right, 9:23 of July 3rd in 1999 is set to 15:00 of August 1st in 1999.

- (1) Turn the JOG dial slowly and turn on and off the numerical value (year, month, day, hour, minute, or second) of the calendar/clock item to be changed.

Notes

- When a * mark is displayed in the setting menu, turn the JOG dial continuously downward until the numerical value blinks. For the calendar/clock setting, a * mark is not displayed on the video monitor.
- Do not turn the JOG dial excessively upward during setting. An * mark is displayed in the setting menu and the calendar/clock setting is stopped.

- (2) Press and turn the JOG dial, and change the numerical value to the desired one.

Notes

- The count display of seconds stops when the numerical value is changed. The internal data is updated.
- On the video monitor, message "Push SET Button" is displayed in the upper line.

- (3) Repeat steps (1) and (2) until the numerical values in other items are changed completely.

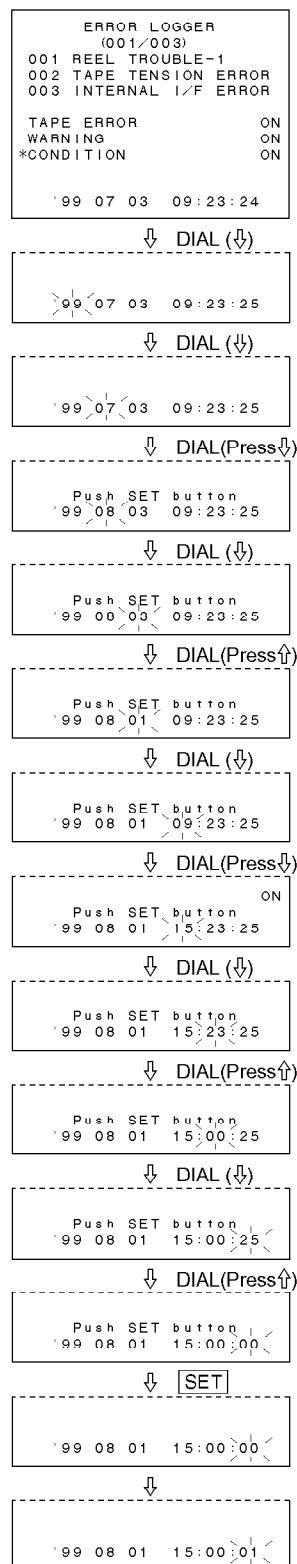
- (4) Push the SET button to save the setting values.

Notes

- To change only the date, the time must also be set again.
- To cancel the calendar/clock setting, terminate the setting mode or turn the JOG dial upward until a * mark is displayed in the setting menu (the setting menu item is displayed for a FL display panel).
- The unit enters the normal operation state when the SET button is pushed with message "Push SET Button" not displayed on the video monitor. Push the MENU button to return to the former state.
- To set the time accurately, push the SET button immediately the display and current time coincided.

- (5) Push the MENU button to terminate the setting mode.

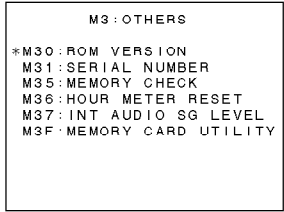
Example of display and operation



3-4. OTHERS CHECK Mode (M3)

3-4-1. Outline

The OTHERS check mode is used for other checks. This unit has the five menus and one submodes (M3F) below.



OTHERS CHECK mode

Title	Page	Description
M30 : ROM VERSION	3-82	Displays the unit's model name, ROM version, and optionally mounted board.
M31 : SERIAL NUMBER	3-82	Displays and corrects the serial number of this unit.
M35 : MEMORY CHECK	3-83	Displays the data in ROM. (Used for check at the factory.)
M36 : HOUR METER RESET	3-83	Displays and resets the resettable hours meter and thread counter.
M37 : INT AUDIO SG LEVEL	3-84	Sets the head room of an audio level meter.
M3F : MEMORY CARD UTILITY	—	Uploads and downloads the software using the memory card box.

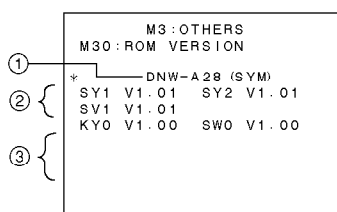
M3F : MEMORY CARD UTILITY

Note

M3F : MEMORY CARD UTILITY is not used currently.

3-4-2. ROM VERSION Display Menu (M30)

This menu displays the model name of this unit, the destination, the ROM version, and the information of the installed option.



Description of superimpose picture

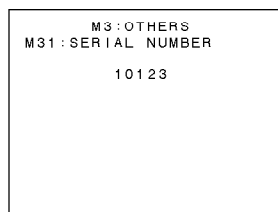
- ① The model name of this unit and the destination in parentheses are displayed on the superimpose picture. The model name and destination are detected from the setting condition of the DIP switch (S202) on the SY-259B board.
- ② Each version number of system control ROMs (SY1 and SY2), a servo ROM (SV1), a front panel control ROM (KY0), and a switch control ROM (SW0) is displayed on the superimpose picture.
- ③ The installed options are displayed as described below when the option is installed.

Menu operation

Turn the search dial to move the * mark.
 The contents of an *-marked item on the superimpose picture are displayed in a FL display panel.
 The installed option is displayed on only the superimpose picture.

3-4-3. SERIAL NUMBER Display Menu (M31)

This menu displays the serial number of this unit. When each serial number does not coincide because of repair, it can be set again in this menu.



Notes

- Set the serial number again after the SY-259B board or the NV-RAM (IC112 on the SY-259B board) is replaced.
- “-----” is displayed in the state where no serial number is set.

Serial number setting

- (1) Turn the JOG dial to turn on and off the digit you wish to set.
- (2) Press and turn the JOG dial, and change the digit number.
 - Message “Push SET Button” is displayed on only the superimpose picture when the serial number is changed.
 - To cancel the setting, press the MENU button to terminate this menu.
- (3) Repeat steps (1) and (2) for each digit.
- (4) Press the SET button to save the set serial number.
 - Message “Saving...” is displayed on only the superimpose picture. If no abnormality is found, the display changes to “Save Complete” after a few seconds.

3-4-4. MEMORY CHECK Display Menu (M35)

This menu displays the ROM data installed in this unit in hexadecimal.

Note

This menu is used for inspection at the factory.

M3:OTHERS				
M35:MEMORY CHECK				
0000*0000:	24	07	00	F0
0000 0004:	24	07	00	F0
0000 0008:	24	07	00	F0
0000 000C:	24	07	00	F0
0000 0010:	24	07	00	F0
0000 0014:	24	07	00	F0
0000 0018:	24	07	00	F0
0000 001C:	24	07	00	F0
0000 0020:	24	07	00	F0

Menu operation

When the JOG dial is turned, the first-digit value of the address changes with the * mark moved to the position shown in the above figure. Press the JOG dial of the address and then turn it. The third digit of the address then changes.

The first and third digits alternately change every time the JOG dial is pressed. Turn the JOG dial with the STOP button pressed. The fifth-digit value of the address changes with the * mark moved to the position shown in the figure below.

With the STOP button pressed, moreover, press the JOG dial and then turn it.

The seventh-digit value then changes. The first and seventh digits of the address alternately change every time the JOG dial is pressed with the STOP button pressed. The contents of the *-marked line on the superimpose screen are displayed on the FL display panel.

Note

A white square is displayed in the upper-right position of the superimpose picture when the SET button is pressed. This unit then enters the ordinary operation state (in which the ordinary operation of this unit except a menu system can be performed).

However, the character information (time code or operation status) superimposed during ordinary operation is not displayed.

To return to the former state, press the MENU button.

3-4-5. HOUR METER RESET Menu (M36)

This menu can display and reset the values of the resettable hours meter and thread counter.

M3:OTHERS		
M36: HOUR METER RESET		
*DRUM HOURS	234	
TAPE HOURS	123	
THREAD COUNTER	1234	
Push SET button		

Description of superimpose picture

- DRUM HOURS : Indicates the total of drum rotation time. Same as in setup menu ITEM-H12.
- TAPE HOURS : Indicates the total of tape transport time. Same as in setup menu ITEM-H13.
- THREAD COUNTERS : Indicates the total of threading count. Same as in setup menu ITEM-H14.

Menu operation

Turn the JOG dial to move the * mark.

The contents of the *-marked line on the superimpose screen are displayed on the FL display panel.

To reset

The former state cannot be returned when the SET button is pressed for reset operation.

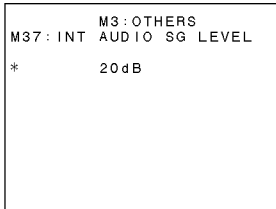
- Turn the JOG dial and move the * mark to the item to be reset.
- Press and turn the JOG dial upward. The = display value then becomes zero ("0").
 - Message "Push SET Button" is displayed on only the superimpose picture when the display value is set to "0".
 - To return to the former state, turn the JOG dial downward.
- If there are other items to be reset, repeat steps (1) and (2).
- Press the SET button to save the reset data.
 - Message "Saving ..." is displayed on only the superimpose picture. If no abnormality is found, the display changes to "Save Complete" after a few seconds.
 - To turn off "Save Complete", turn the JOG dial.

3-4-6. INT AUDIO SG LEVEL

This menu can change the level of an internal audio SG.

The SG level can be selected from among the following. (The factor setting is 20 dB.)

20 dB, 18 dB, 16 dB, 15 dB, 14 dB, 12 dB, 9 dB



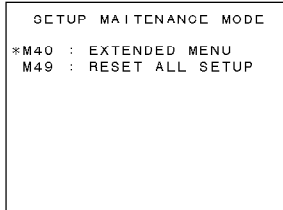
SG level setting

- (1) Press and turn the JOG dial, and the desired setting is then displayed.
 - Message “Push SET Button” is displayed on only the video monitor when the setting is changed.
 - To cancel the setting, push the MENU button to terminate this menu.
- (2) Push the SET button to save the changed setting.
 - Message “Saving...” is displayed on only the video monitor. If no abnormality is found, the display changes to “Save Complete” after a few seconds.
 - To turn off “Save Complete”, turn the JOG dial.

3-5. Setup Maintenance Mode (M4)

3-5-1. Outline

The setup maintenance mode is used for the setup menu.
 This unit has two menus below.



Method to select M49: RESET ALL SETUP

- (1) Turn the JOG dial while pressing the PLAY button and move the “*” mark.
- (2) Press the SET button.

3-5-2. EXTENDED MENU Display Selection Menu (M40)

It is selected by switching the DIP switch S201-1 on the SY-259B board whether display the extended menus of the setup menu or not.
 However, only when this switch is OFF (factory setting), the extended menus are enabled to display by this menu.

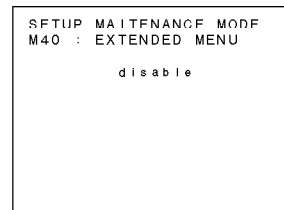
Note

When the setting of the DIP switch S201-1 is ON, the extended menus are enabled to display regardless of the setting in this menu.

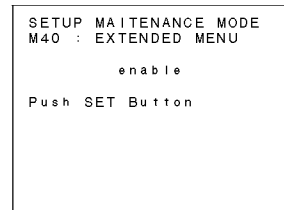
To execute

- (1) Press and turn the JOG dial, display the desired setting.
 disable: Not display the extended menu
 enable: Display the extended menu
- (2) Press the SET button.

Examples of display and operation



(1) ↓ DIAL(Press↓)



(2) ↓ SET

3-5-3. RESET ALL SETUP Executing Menu (M49)

Reset the following settings to the factory setting at once.

- All “current” and “bank” in the setup menu
For 525/60 system : current, bank1, bank2, bank3, bank4
For 625/50 system : current, bank1, bank2, bank3, bank4
- ITEM-013 : 525/625 SYSTEM SELECT in the setup menu
- M40 : EXTENDED MENU in the maintenance mode

To execute

- (1) Press and turn the JOG dial downward, and move the * mark to ON.
 - The message “All the System Setup data will be changed to Factory default.” is displayed on the video monitor.
- (2) Press the SET button.
 - The message “Executing...” is displayed on the video monitor during changing the setting.
- (3) Check that the setting change is completed.
 - After the setting change is completed, the message “Complete” “Turn off/on POWER!!” is displayed on the video monitor .
- (4) Turn off the power.
- (5) Turn on the power again.

Examples of display and operation

```

SETUP MAINTENANCE MODE
M49 : RESET ALL SETUP

*OFF

```

(1) ↓ DIAL(Press↓)

```

SETUP MAINTENANCE MODE
M49 : RESET ALL SETUP

*ON

Push SET Button

----- Caution -----
All the System Setup
data will be changed
to Factory default.

```

(2) ↓ [SET]

```

SETUP MAINTENANCE MODE
M49 : RESET ALL SETUP

*ON

Executing...

----- Caution -----
All the System Setup
data will be changed
to Factory default.

```

(3) ↓ Check

```

SETUP MAINTENANCE MODE
M49 : RESET ALL SETUP

*ON

Complete

Turn off/on POWER!!

```

(4) ↓ Turn OFF the power

(5) ↓ Turn ON the power

Section 4

Periodic Maintenance and Inspection

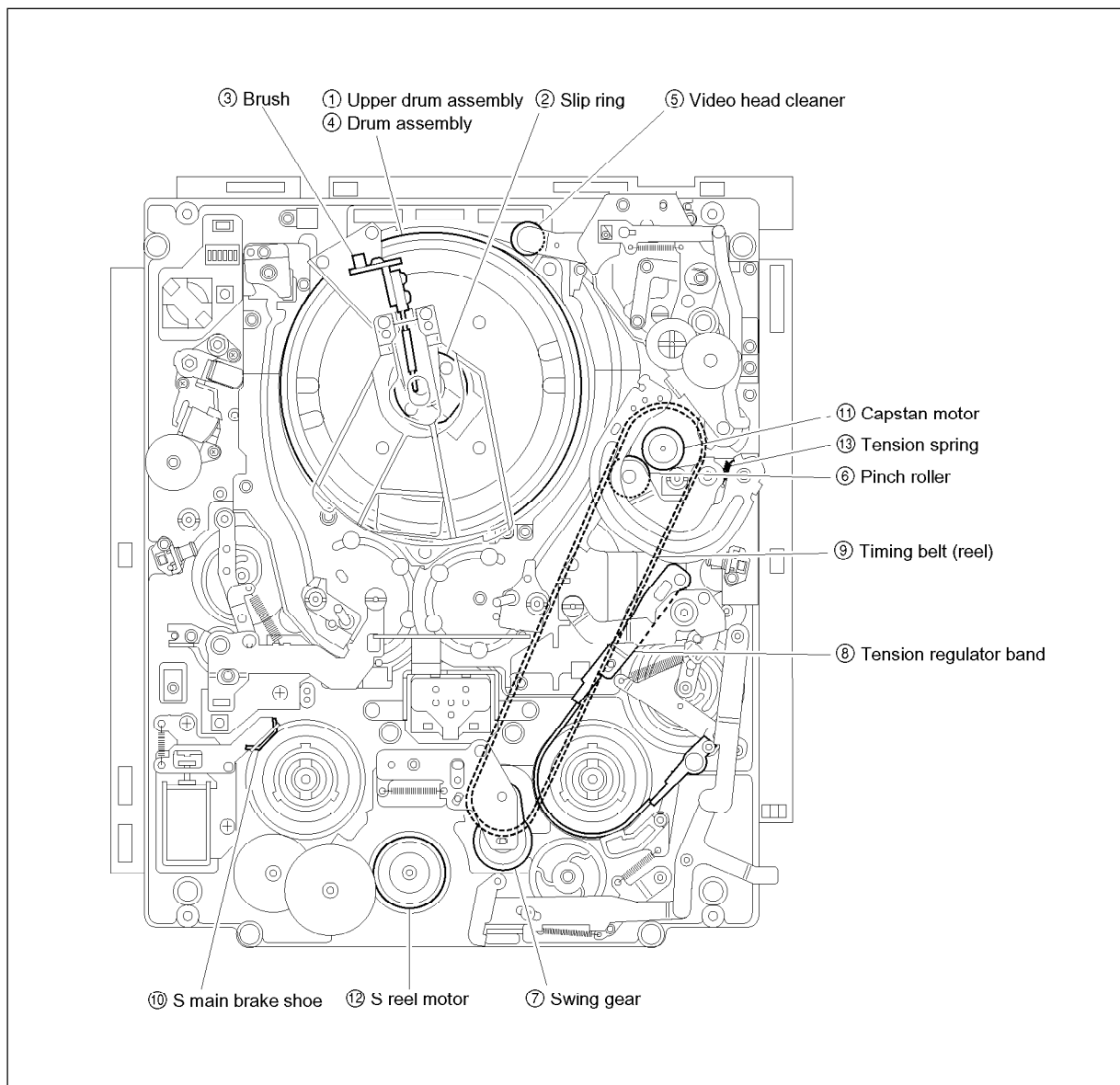
This section explains about periodic maintenance and how to clean.

4-1. Periodic Maintenance

To make the most of the functions, fully realize the performances of this unit and to lengthen the life of the unit, periodic check and parts replacement are recommended.

4-1-1. Index

It is necessary to check and replace periodically to the following parts.
The numbers in the illustration correspond to the table in the next page.



4-1-2. Periodic Replacement and Check Item Table

The replacement time shown in the following table is not the guarantee term of parts. The replacement time of parts varies depending on the operating environment and conditions of the unit.

Especially, the pinch roller and video head cleaner may be required replacing earlier than replacement period shown in table depending on their dirt or abrasion.

The part with arrow “↓” in the table is included in the part pointed by the arrow.

When the part pointed by the arrow is to be replaced, the part with the arrow will be replaced at the same time.

R : Replacement

No. Replacement Part	Mode	Inspection hours						Part No.	Description
		1,000	2,000	3,000	4,000	5,000	6,000		
① Upper drum assembly	A		R		↓		R	A-8317-461-A	Upper drum assembly DJR-20A-R
② Slip ring	A		R		↓		R	A-8317-463-A	Slip ring assembly, 4ch (RP)
③ Brush	A		R		↓		R	A-8317-464-A	Brush assembly, 4ch (RP)
④ Drum	A				R			A-8317-459-A	Drum assembly DJH-20A-R
⑤ Video head cleaner	B	R	R	R	R	R	R	X-3949-109-1	AHC roller assembly
								3-615-320-01	CR cap
⑥ Pinch roller	B	R	R	R	R	R	R	X-3678-926-1	Pinch Roller
⑦ Swing gear	B		R		R		R	A-8278-829-C	Gear assembly
⑧ Tension regulator band	B		R		R		R	A-8278-704-C	Tension regulator band assembly
⑨ Timing belt (reel)	B			R			R	3-611-544-01	Timing belt
⑩ S main brake shoe	B			R			R	3-611-473-01	Brake shoe
⑪ Capstan motor	B						R	8-835-590-01	DC motor SCV-0703A/J-N
⑫ S reel motor	B						R	8-835-589-01	DC motor SRV11A/J-N
⑬ Tension spring	C	Replace every 20,000 times.						3-613-709-01	Tension spring

Mode A : Drum rotating hours (hours)

Mode B : Tape running hours (hours)

Mode C : Threading counter (times)

4-1-3. Hours Meter

This unit can display an hours meter on the FL display panel. Indication of the hours meter can be displayed on the video monitor if it is connected to the VIDEO OUTPUT 2 (SUPER) connector. Perform a periodic check with this hours meter as a reference.

1. Contents of display

Menu No.	Display	Contents
H01	OPERATION HOURS	Sum of energized time
H02	DRUM RUNNING HOURS	Sum of drum rotating time
H03	TAPE RUNNING HOURS	Sum of tape running time
H04	THREADING COUNTER	Sum of threading
H12	DRUM RUNNING HOURS	Sum of drum rotating time (Resettable)
H13	TAPE RUNNING HOURS	Sum of tape running time (Resettable)
H14	THREADING COUNTER	Sum of threading (Resettable)

2. Display procedures

- (1) Press the MENU button of the front panel to display the menus and their contents.
- (2) Press the MENU button again to exit the MENU.

3. How to reset

Refer to Section 3-4-6 in “Section 3 Maintenance Mode” to reset the resettable menus (H12, H13, and H14).

4-2. Cleaning

To make the most of the functions, fully realize the performance of this unit, and to lengthen the life of the unit and tape, clean the components often.

4-2-1. Using Cleaning Tape

If the video heads are clogged, clean the video head by the following procedure.
Make sure to use the specified cleaning tape. If other tape is used, unusual abrasion or damage of the video heads may occur.

Specified cleaning tape: BCT-5CLN

Procedure

1. Insert the Cleaning tape BCT-5CLN to the unit.
2. Press the EJECT and PLAY buttons simultaneously.

The cleaning tape is played back for approx. five seconds. After that, the cleaning tape will be ejected automatically.

Notes

- If the cleaning tape is not ejected after playing back more than five seconds, be sure to press the EJECT button immediately and eject the cleaning tape.
 - Do not place the cleaning tape in the STOP mode, and do not put the unit in fast-forward and rewind mode, because the video heads may be damaged.
3. Check that the head clogging is clear.

If the video heads are still clogged after cleaning by cleaning tape, clean them with cleaning cloth.
(Refer to Section 4-2-3.)

4-2-2. General Information for the Use of Cleaning Cloth

1. Cautions

- Be sure turn the power off before cleaning.
- Each block in the mechanical deck consists of a precision part and is adjusted precisely. Be careful not to damage each part and to apply an excessive force during cleaning.
- Do not touch the greased portions during cleaning. If grease attaches to cleaning cloth, replace the cleaning cloth with a new one. If a cleaning cloth smeared with grease is used, grease may attach to the places where it should not.
- Do not insert a cassette tape before a cleaning fluid completely evaporates after cleaning.

2. Preparation

- (1) Turn the power off.
- (2) Remove the top plate. (Refer to Section 1-4-1.)
- (3) Remove the cassette compartment. (Refer to Section 1-5.)

4-2-3. Cleaning of Video Heads and Tape Running Surface of Upper Drum

Cautions

- Never contact the drum during rotating.
- The video heads can be damaged easily. Be careful not to damage the video heads during cleaning.

Tools

- Cleaning cloth: 3-184-527-01
- Cleaning fluid: 9-919-573-01

Note

Never use a cotton swab to clean the video heads.

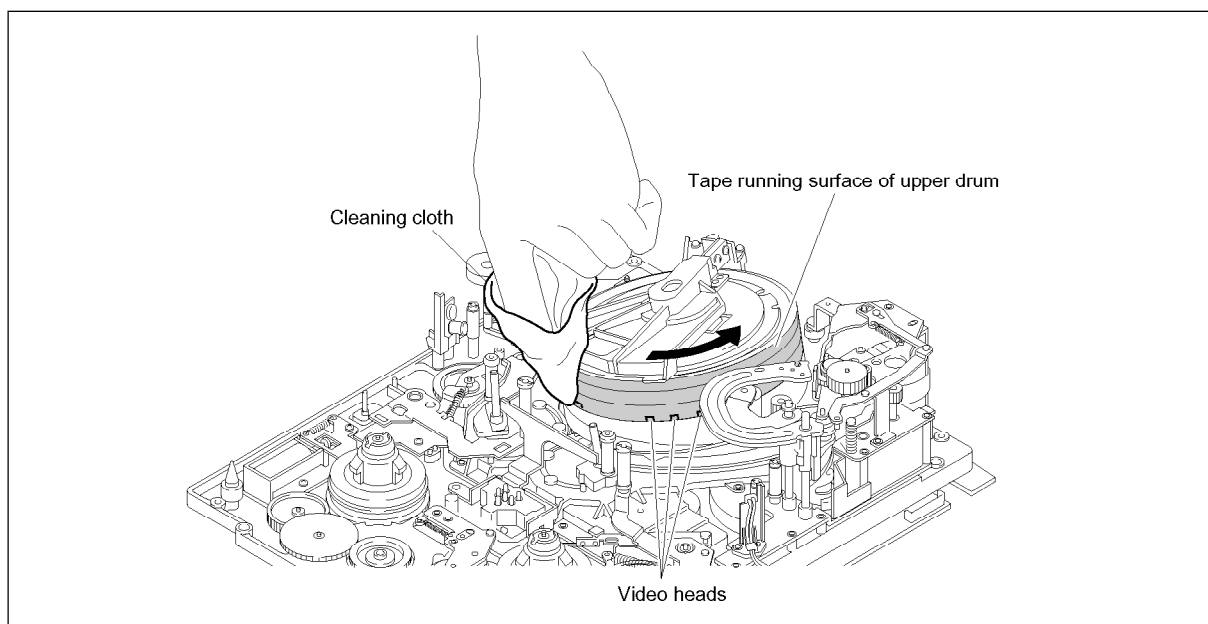
Procedures

1. Hold the cleaning cloth moistened with a cleaning fluid keeping it without becoming wrinkled. And then, press the cleaning cloth slightly against the video heads.
2. Slowly rotate the upper drum counterclockwise two or three turns to clean the tape running surface and video heads (shaded portion in the figure).

Note

Be sure to rotate the upper drum counterclockwise and clean the video heads along the circumference. Do not rotate the upper drum in the opposite direction (clockwise) or clean it in the vertical direction. This may damage the brush and slip ring or the video heads.

3. After cleaning, wipe it with a dry cleaning cloth two or three times.



Cleaning of Video Heads and Tape Running Surface of Upper Drum

4-2-4. Cleaning of Lead Surface and Tape Running Surface of Lower Drum

Caution

Be careful not to damage the lower drum (especially lead surface) during cleaning. Pay careful attention to the upper edge portion of the lower drum because it is located near the video heads.

Tools

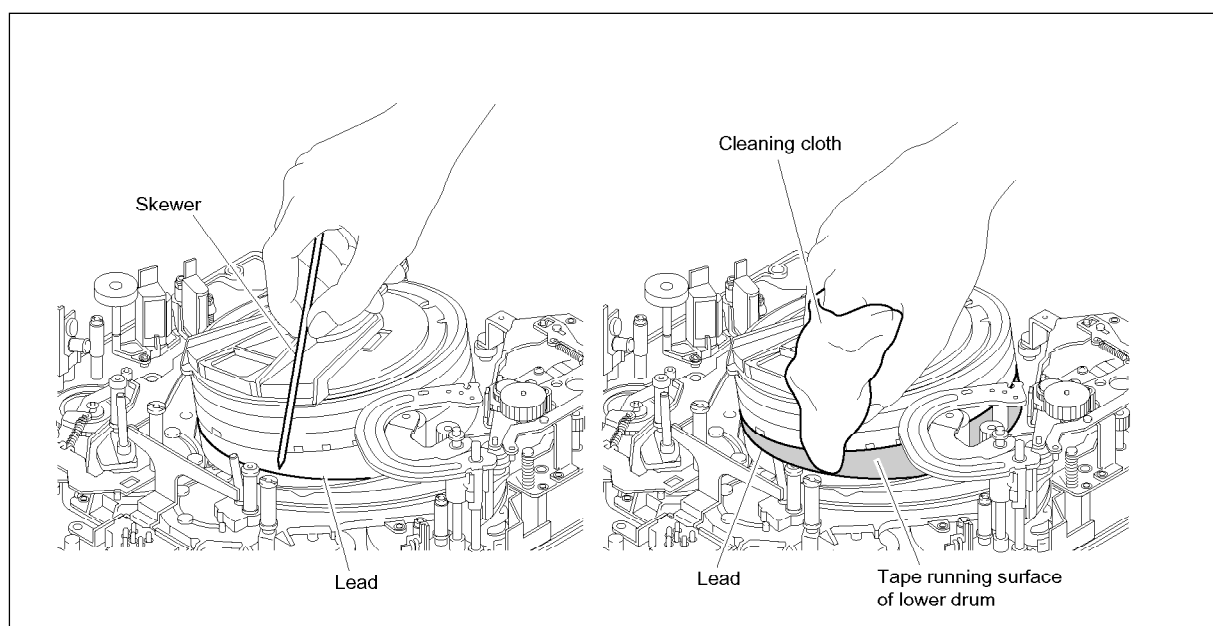
- Cleaning cloth: 3-184-527-01
- Cleaning fluid: 9-919-573-01
- Skewer or an equivalent (Never use a metallic skewer.)

Procedures

1. As shown in the figure, put a skewer (or an equivalent) along the drum lead surface and remove the magnetic powder.

Notes

- Never use a metallic skewer instead of the skewer to avoid damage the tape running surface.
 - Tracking may be badly influenced if magnetic powder attaches to the drum lead surface. Remove the magnetic powder completely during cleaning.
2. Wipe the drum lead surface and lower drum's tape running surface (shaded portion in the figure) with a cleaning cloth moistened with a cleaning fluid.
 3. After cleaning, wipe it with a dry cleaning cloth two or three times.



Cleaning of Lead Surface and Tape Running Surface of Lower Drum

4-2-5. Stationary Heads and Tape Cleaner Cleaning

Cautions

- Do not contact the edge with bare hands because the tape cleaner has sharp edge. Pay careful attention to the tape cleaner during cleaning.
- Being careful not to damage the head surface, clean the stationary heads.

Tools

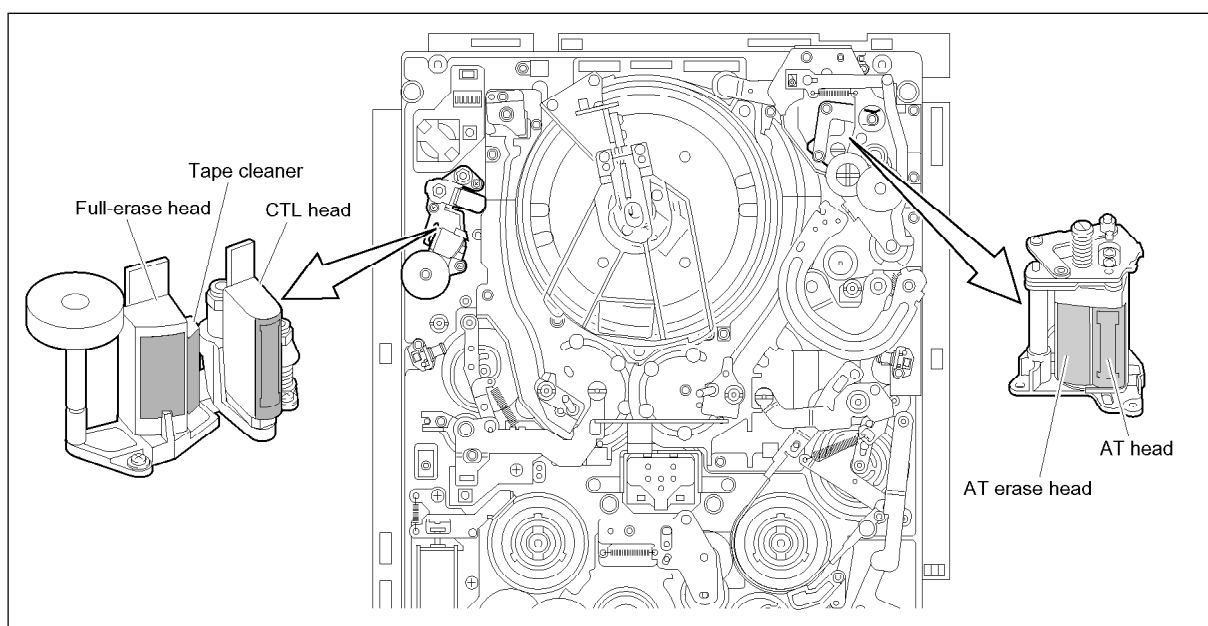
- Cleaning cloth: 3-184-527-01
- Cleaning fluid: 9-919-573-01

Procedures

1. Wipe the tape running surfaces (shaded portion in the figure) of the full-erase head, tape cleaner, CTL head, AT erase head and AT head in the vertical direction with a cleaning cloth moistened with a cleaning fluid.

Notes

- Remove the magnetic powder completely during cleaning. An error may occur in the playback or recording when magnetic powder attaches to the head gap portion of the full-erase head, CTL head, AT erase head or AT head.
 - Do not contact the edge portion of the tape cleaner with bare hands.
 - Do not apply an excessive force to the tape cleaner to avoid damage it.
2. After cleaning, wipe them with a dry cleaning cloth two or three times.



Stationary Heads and Tape Cleaner Cleaning

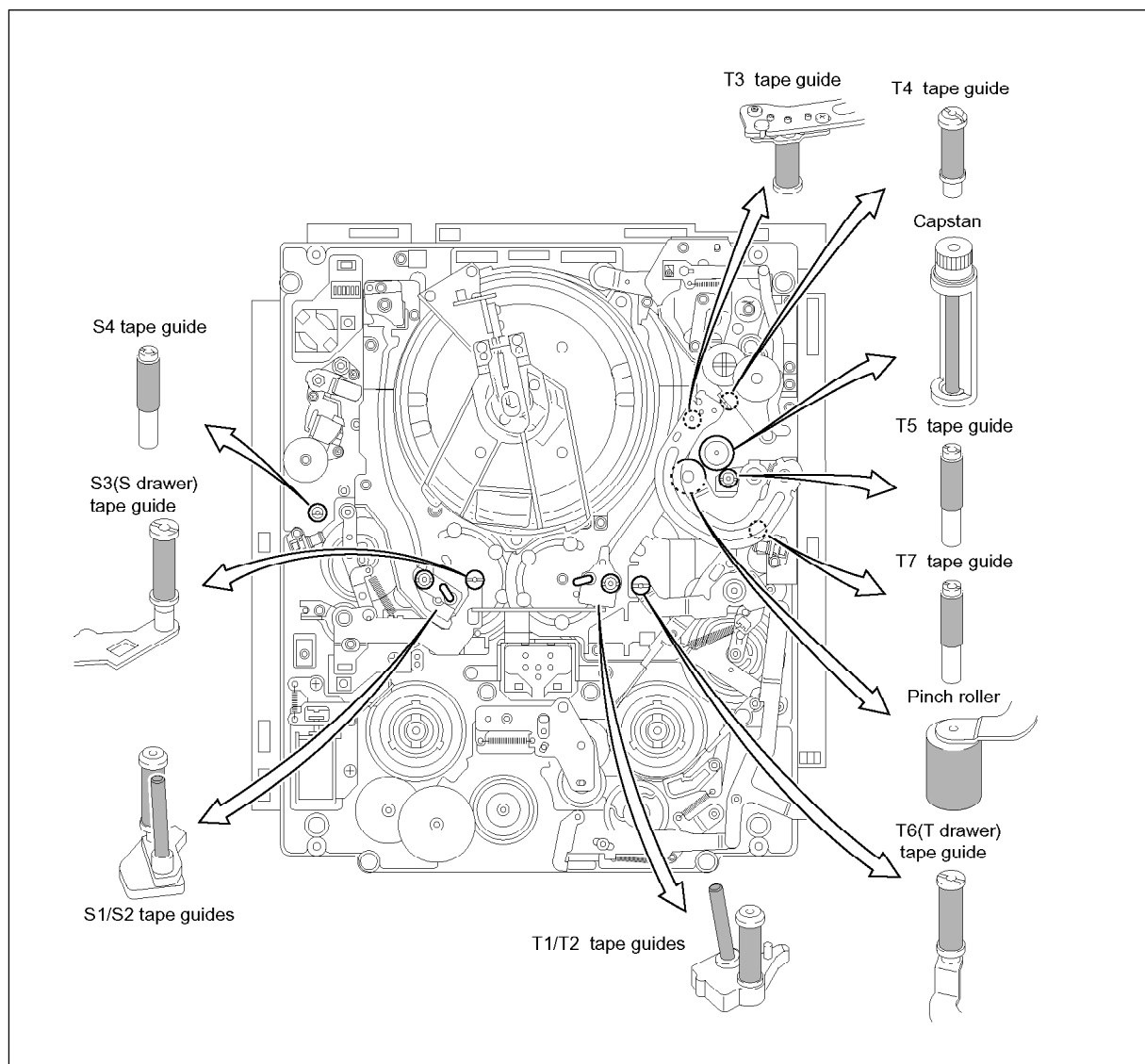
4-2-6. Tape Running System Cleaning

Tools

- Cleaning cloth: 3-184-527-01
- Cleaning fluid: 9-919-573-01

Procedures

1. Wipe the tape running surfaces (shaded portions in the figure) of each guide with a cleaning cloth moistened with a cleaning fluid.
2. After cleaning, wipe them with a dry cleaning cloth two or three times.



Tape Running System Cleaning

4-3. Video Head Tip Protrusion Check

When performing the periodic maintenance or inspection, measure the tip protrusion of the video heads using a head tip protrusion measurement gauge to check them for the upper drum assembly replacement.

If the tip protrusion of all heads are satisfying the following specification and more, it enables to recording and playing back on the tape.

Head	Specification
PB heads for Betacam/Betacam SP format	20 μm
PB heads for BetacamSX format	
REC heads for BetacamSX format	

If the tip protrusion of any one head is under the specification, it is recommended that the upper drum assembly should be replaced early before occurring the trouble at the recording or playing back.

As for the upper drum replacement, refer to Section 5-2.

Tools

- Cleaning cloth : 3-184-527-01
- Cleaning fluid : 9-919-537-01
- Head tip protrusion measurement gauge: J-6530-650-A
- Torque screwdriver (3 kg \cdot cm) : J-6325-400-A
- Torque screwdriver's bit (for M2) : J-6325-380-A

4-3-1. Head Tip Protrusion Measurement

Preparations for VTR

1. Remove the top plate. (Refer to Section 1-4-1.)
2. Remove the cassette compartment. (Refer to Section 1-5.)
3. Remove the drum cover. (Refer to Section 5-3.)
4. Clean the outer circumference and video heads of the upper drum (shaded portions in Figure 1). (Refer to Section 4-2-3 for the cleaning method.)

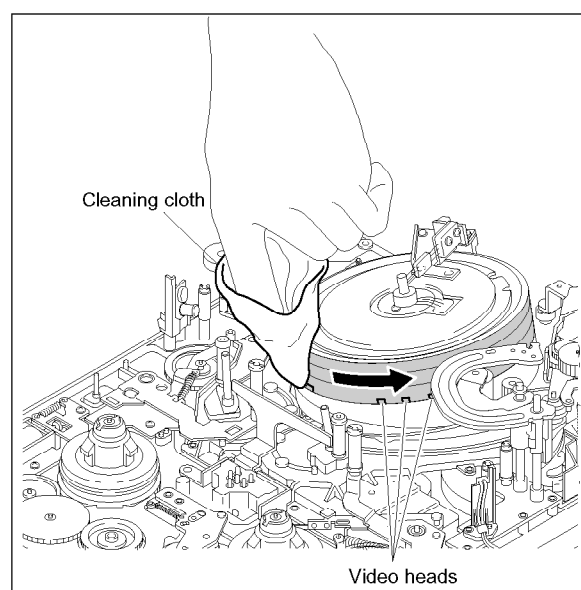


Figure 1. Cleaning of Drum

Preparations for Head Tip Protrusion Measurement Gauge

This gauge is the precision equipment. Handle with care.

1. Loosen the adjustment screw fully by turning it counterclockwise. (Refer to Figure 3.)
2. Clean the probe, positioning flange, and portion contacting the drum of two legs. (Refer to Figure 3.)

Note

Do not apply an excessive force to the probe during cleaning. If a deposit of μm order exists, measurement cannot be performed accurately.

Setting of Head Tip Protrusion Measurement Gauge

Note

Being careful not to damage the tape-running surface and video heads of the drum, set the gauge.

1. While pushing the manual eject knob downward, turn it clockwise to set the unit in threading-end condition.

Note

Make sure that the T drawer arm hits the stopper at this time.

2. Rotate the upper drum manually counterclockwise (↺) to align the label of the board cover with the frame of the brush assembly.

Note

The upper drum position is determined as described above to put the probe of the head tip protrusion measurement gauge on the absence of a head. The video head that first measures the protrusion value is the CNF A head.

3. Check the value that the dial gauge pointer reads.
4. Position a probe between the dummy head and CNF A head. (Refer to Figure 2.)
5. Press the tip of two legs against the outer circumference of the drum's upper surface while keeping the base plate of the measurement gauge in parallel with the upper surface of the drum. Be sure to keep the probe of the measurement gauge sufficiently away from the drum.
6. Lower the measurement gauge slowly until the ridges of the two legs and positioning flange touch the upper drum while pushing two legs against the outer circumference of the drum's upper surface (applying force slightly to the measurement gauge in the direction indicated by the arrow). (Refer to Figure 3.)

Notes

- Before placing a measurement gauge on the drum, ensure that the adjustment screw has been loosened fully.
- Perform carefully and slowly so that the probe of a measurement gauge does not touch the outer circumference or video head on the drum.
(Lower so that the probe is slightly higher than the two legs.)
- After placing the measurement gauge on the drum, be sure to support it with hand at all times.
If it is loose carelessly, the drum and measurement gauge will turn and damage the peripheral parts.

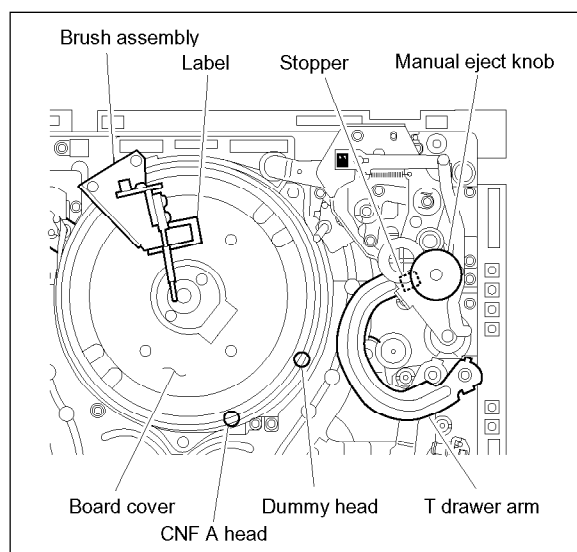


Figure 2. Alignment of Drum Position

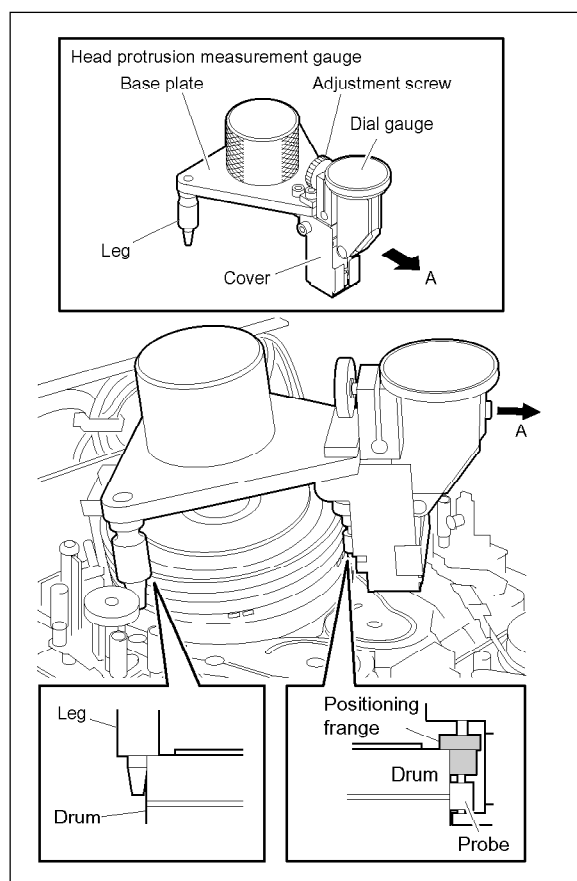


Figure 3. Setting of Head Tip Protrusion Measurement Gauge

7. Check to see the followings:
 - The probe is in the middle of the adjacent heads.
 - The positioning flange adheres closely to the outer circumference of the drum's upper surface.
 - The legs adhere closely to the outer circumference of the drum's upper surface.
 - The value that the dial gauge pointer reads is the same as before setting (in step 2).
8. Turn the adjustment screw clockwise until the dial gauge pointer rotates approximately a half turn.
9. Turn the outer frame of the dial gauge to align zero (0) to the pointer.

Measurement of Head Tip Protrusion

Note

When rotating the upper drum manually, hold the cover of the measurement gauge by your hand to not come to turn the gauge with the drum rotation.

1. Rotate the upper drum manually counterclockwise (↺) very slowly to approach a video head aside of the probe. (Refer to <A> in Figure 4.)
2. Read the dial gauge pointer. (= Ha)

Note

The scale of the dial gauge is 2 μm (0.002 mm) pitch.
Clockwise: +. Counterclockwise: -.

3. Rotate the upper drum manually counterclockwise (↺) very slowly to center the video head in the probe. (Refer to in Figure 4.)
4. Read the dial gauge pointer. (= Hb)
5. Calculate the real head tip protrusion Hr with the Ha and Hb.

$$H_r = H_b - H_a$$
6. Calculate the head tip protrusion Hr for all heads with steps 1 through 5 performing.
7. Measure and calculate the real head tip protrusion Hr for all heads again.

Note

Do it two times for fear of measuring error.

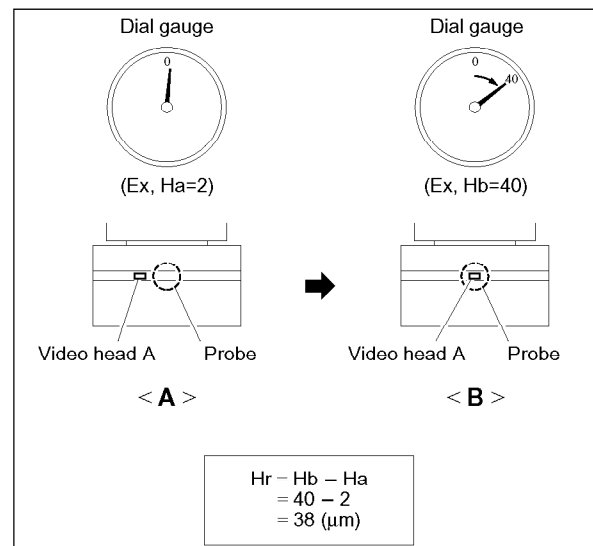


Figure 4. Example of Head Tip Protrusion Measurement

This table is in measure order of the heads.

Head name	Spec. (μm)	Head tip protrusion (Hr = Hb – Ha)			
		First time		Second time	
CNF A	20	=	–		= –
CNF B	20	=	–		= –
Y-A	20	=	–		= –
C-A	20	=	–		= –
ADV A2	20	=	–		= –
ADV B2	20	=	–		= –
Dummy	–	(No need for measurement)			
Erase	–	(No need for measurement)			
REC A	20	=	–		= –
REC B	20	=	–		= –
Y-B	20	=	–		= –
C-B	20	=	–		= –
ADV A1	20	=	–		= –
ADV B1	20	=	–		= –
Dummy	–	(No need for measurement)			

Removal of Head Tip Protrusion Measurement Gauge

1. Rotate the upper drum manually counterclockwise (○) very slowly to move a video head aside from the probe.
2. Loosen the adjustment screw of the measurement gauge fully by turning it counterclockwise.
3. Lift up the positioning flange from the outer circumference of the drum's upper surface to a few millimeters, and then lift the measurement gauge slowly and remove it while pushing two legs against the outer circumference of the drum's upper surface (applying force slightly to the measurement gauge in the direction indicated by arrow A). (Refer to Figure 3.)

Note

Perform carefully and slowly so that the probe of a measurement gauge does not contact the outer circumference or video heads on the drum.

Section 5

Periodic Maintenance Parts Replacement

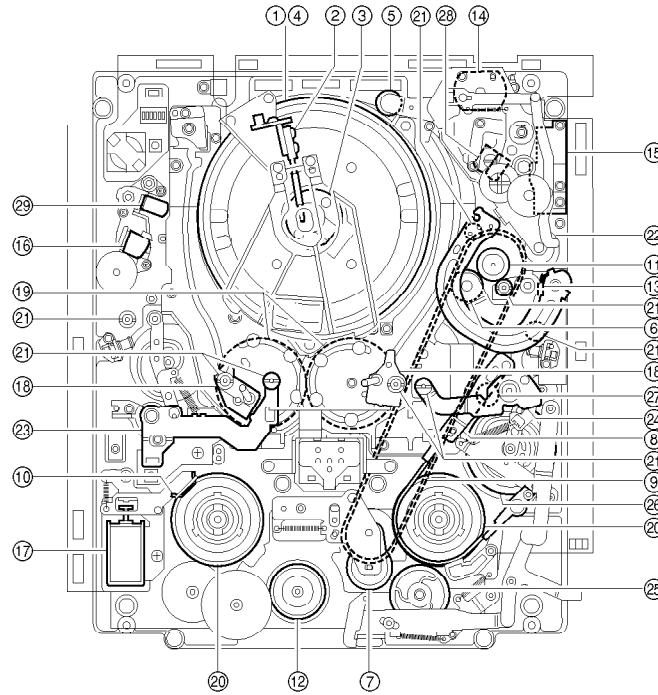
5-1. General Information on Parts Replacement and Alignment

Reference

In the part replacement described in this section, parts can be replaced with the mechanical deck assembly installed in the main unit unless otherwise specified.

In the figures shown in this section, the main unit's frame is omitted.

5-1-1. Index



No.	Part name	Refer to
①	Upper drum assembly	5-2
②	Brush for slip ring	5-3
③	Slip ring assembly	5-4
④	Drum assembly	5-5
⑤	Video head cleaner	5-6
⑥	Pinch roller	5-7
⑦	Swing gear	5-8
⑧	Tension regulator band	5-9
⑨	Timing belt	5-10
⑩	S main brake shoe	5-11
⑪	Capstan motor	5-12
⑫	S reel motor	5-13
⑬	Tension spring	5-14

No.	Part name	Refer to
⑭	Threading motor	6-1*
⑮	Gear box	6-2*
⑯	Full erase head	6-3*
⑰	S brake solenoid	6-4*
⑱	S/T slider	6-5*
⑲	Threading gear	6-5*
⑳	S/T reel table	6-6*
㉑	Tape guide	6-7*
㉒	Pinch press cam	6-8*
㉓	S tension regulator arm	6-9*
㉔	T tension regulator arm	6-10*
㉕	T idler	6-11*
㉖	Cam gear	6-12*
㉗	Intermittent gear	6-13*
㉘	AT head	6-14*
㉙	CTL head	6-15*

* : Refer to Section 6. Mechanical Parts Replacement.

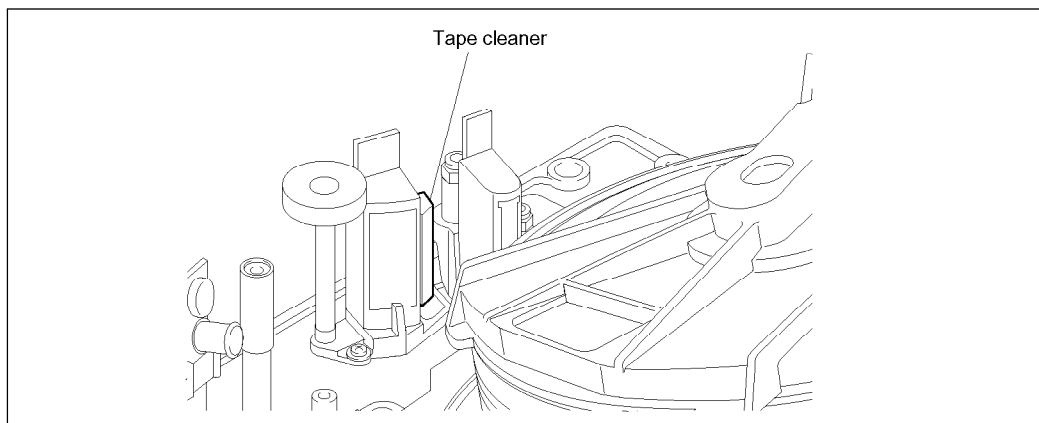
5-1-2. Precaution

1. Tape cleaner

WARNING

Never touch the tape cleaner on the entrance head block with bare hands.

The tape cleaner has a sharp edge. Pay careful attention when replacing or adjusting the peripheral parts.



2. Tool cleaning

Clean the surface of tools before using them.

- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

Take care not to damage the tool when handling it.

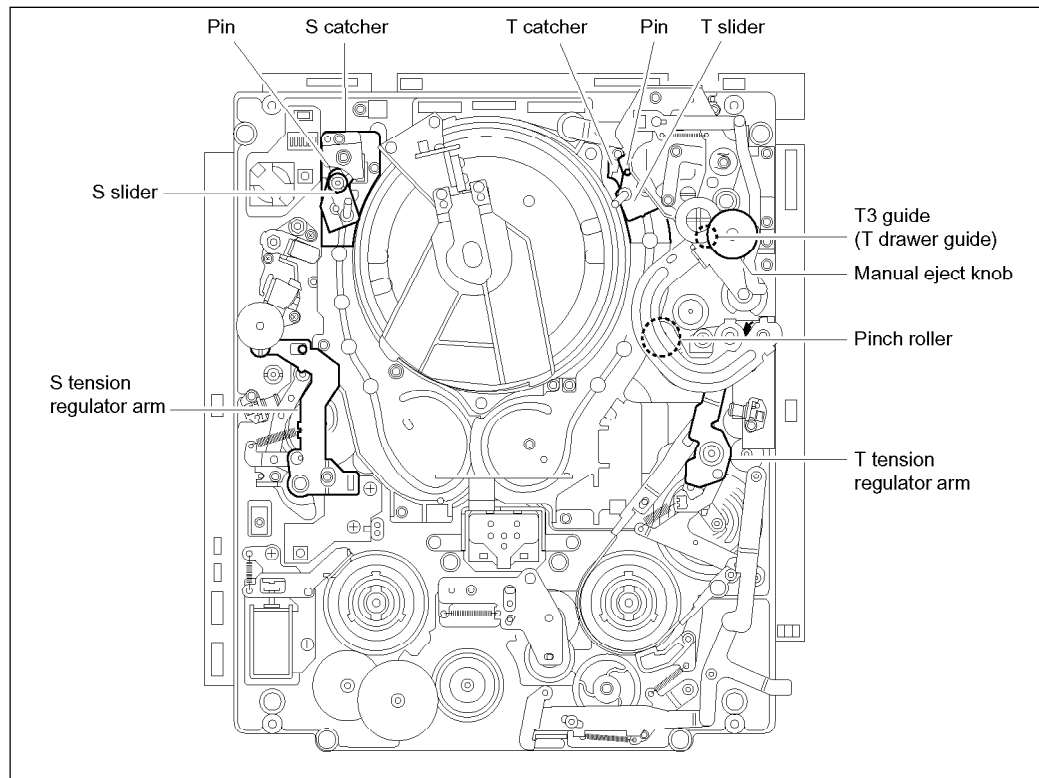
If damaged tool is used, the correct adjustment may not be carried out.

5-1-3. Threading End and Unthreading End States

1. Threading end state

In the threading end state, the S/T slider, S tension regulator arm and other some component parts are positioned to the following states.

- The S and T sliders move from the reel table side to both sides of the drum, and then the pins of the S and T sliders stop in the V grooves of each catcher. The S tension regulator arm, T3 guide, pinch roller, and T tension regulator arm move to the positions shown in the figure.



Entering the threading end state using tape

- (1) Turn on the power.
- (2) Insert a cassette tape into the cassette compartment.

Entering the threading end state manually

Turn the manual eject knob clockwise until the top of the T3 (T drawer guide) push the stopper after moving downward and turning clockwise.

Note

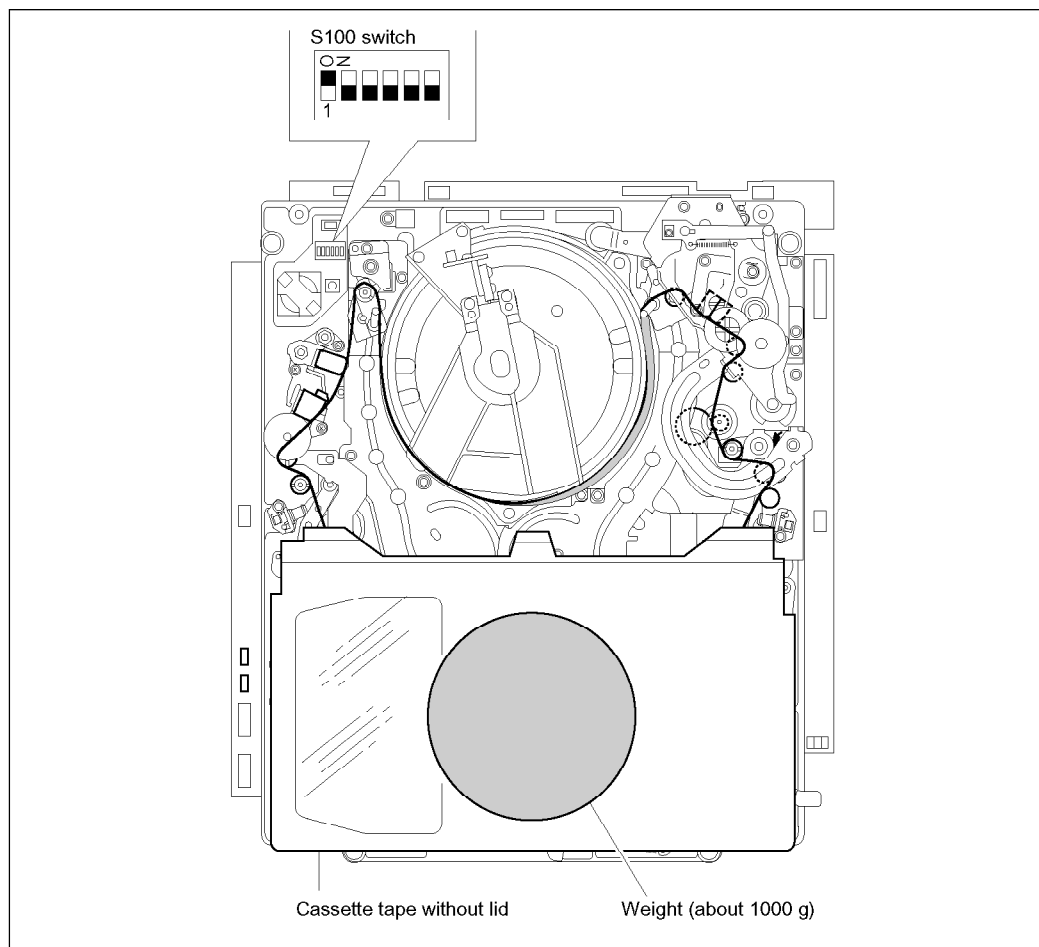
Stop the rotation of the manual eject knob when the above mentioned threading end state is just entered. If not, the related gears may be damaged.

Entering the threading end state with the cassette compartment removed (during tape path adjustment)

- (1) Set the switch S100-1 on the SV-194A board to ON.
- (2) Turn on the power.
- (3) Press the EJECT button.
(If the EJECT button is not pressed, the unit is entered into the error mode due to the threading end state.)
- (4) Press the STOP button.
- (5) Put the cassette tape without lid on the mechanical deck, and then put a weight on it.

Reference

- Use a weight of about 1000 g.
- As for how to remove a lid from the cassette tape, refer to Section 7-1.



2. Unthreading end state

In the unthreading end state, the S and T sliders move from the S and T catchers to the reel table side, and then stop. At the same time, the S tension regulator arm and T tension regulator arm are located in the positions shown in the figure.

Entering the unthreading end state with the cassette compartment removed

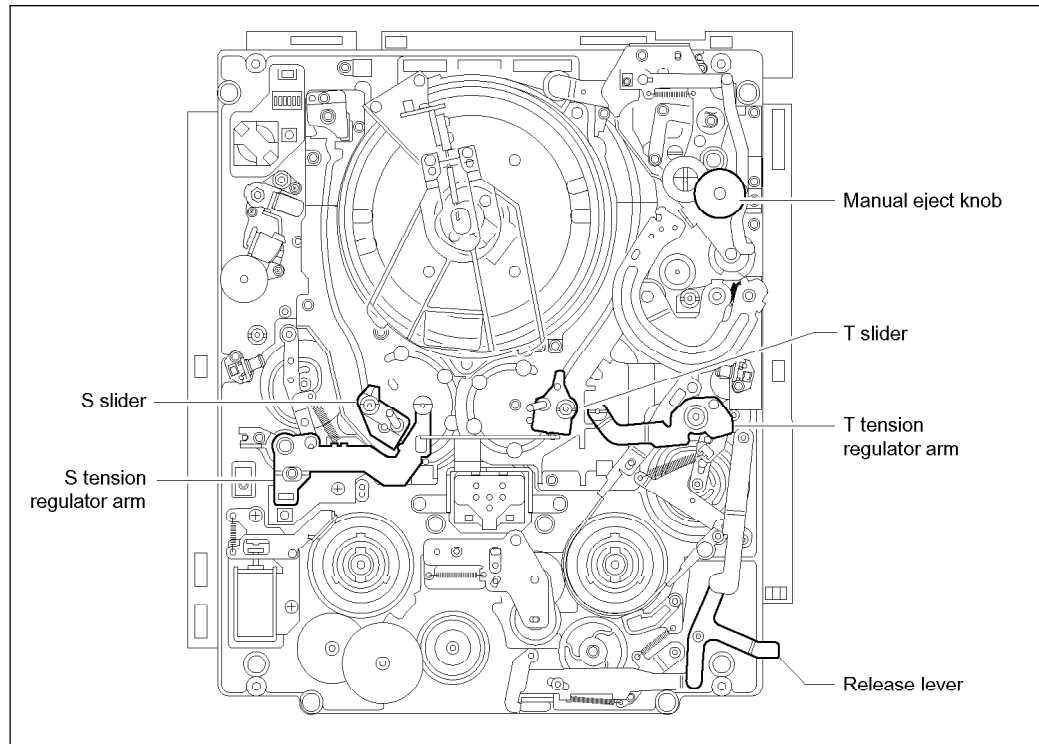
- (1) Set the switch S100-1 on the SV-194A board to ON.
- (2) Turn on the power.
- (3) Press the EJECT button.

Entering the unthreading end state manually

Turn the manual eject knob counterclockwise.

Note

Stop the rotation of the manual eject knob when the unit put into the unthreading end state.
If it is rotated over, the gear may be damaged.



5-1-4. Oil and Grease

Be sure to use the specified oil and grease.

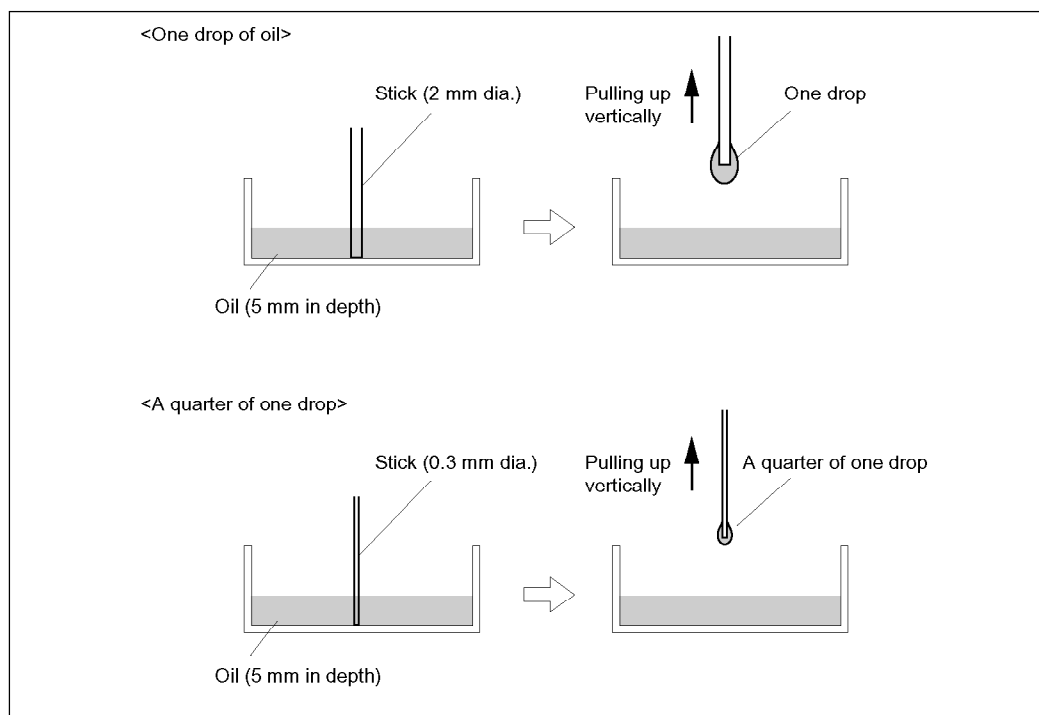
If not, a serious failure may occur in the unit because of difference in viscosity and components.

Do not use oil or grease in which dust is mixed. This may also cause a serious failure.

The oil and grease used in this model are as follows :

Oil :	7-661-018-18
Grease (SGL-601) :	7-651-000-10
Grease (SGL-801) :	7-651-000-11
Grease (PG-662) :	7-615-000-59

- Oil of one drop indicates the amount at the tip of a stick with diameter of 2 mm shown in the figure.
Oil of a quarter of one drop indicates the amount at the tip of a stick with diameter 0.3 mm shown in the figure. Applying oil described in this manual means this a quarter drop of oil applying.
- Apply grease on the surface of the part like a thin film. If grease smeared apart from the relevant areas, be sure to wipe using a gauze or soft cloth.
- Apart from the relevant areas never use oil and grease.



5-1-5. Tightening Torque and Washers

1. Tightening torque and screwdriver

This model uses many M1.4 and M2 screws.

Be sure to use the specified tool when loosening or tightening these screws.

Use a torque screwdriver and tighten the screws with the specified tightening torque.

Torque screwdriver bit (for M1.4) :	J-6325-110-A
Torque screwdriver bit (for M2) :	J-6325-380-A
Hexagon bit (Across flat has 1.5 mm) :	J-6326-120-A
Torque screwdriver (for 3 kg) :	J-6325-400-A

Tightening torque

For M1.4 screw :	$9 \times 10^{-2} \text{ N}\cdot\text{m}$ {0.9 kgf·cm}
For M2 screw :	$20 \times 10^{-2} \text{ N}\cdot\text{m}$ {2.0 kgf·cm}

Reference

This model uses small-sized screws. Be careful not to drop these screws in the unit during removal and installation. We recommend to magnetize the screwdriver bit to prevent that the screws drop.

2. Stop washers and E ring

Do not re-use the stop washer and E ring once they are removed. Be sure to use a new stop washer and E ring when installing parts.

Stop washer (ø2.5) :	3-315-384-11
Stop washer (ø3.6) :	3-559-408-11
E ring (2.3) :	7-624-105-04

Removing the stop washer and E ring

(a) Remove the stop washer and E ring using small pliers or tweezers.

Notes

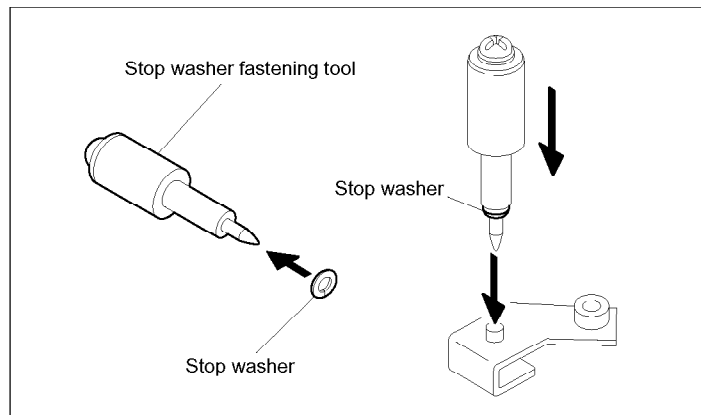
- Be careful not to drop the stop washer and E ring in the unit.
- Take care that the tool does not contact other parts, especially, the drum.

Installing the stop washer

It is recommended to use the tool below when installing the stop washer.

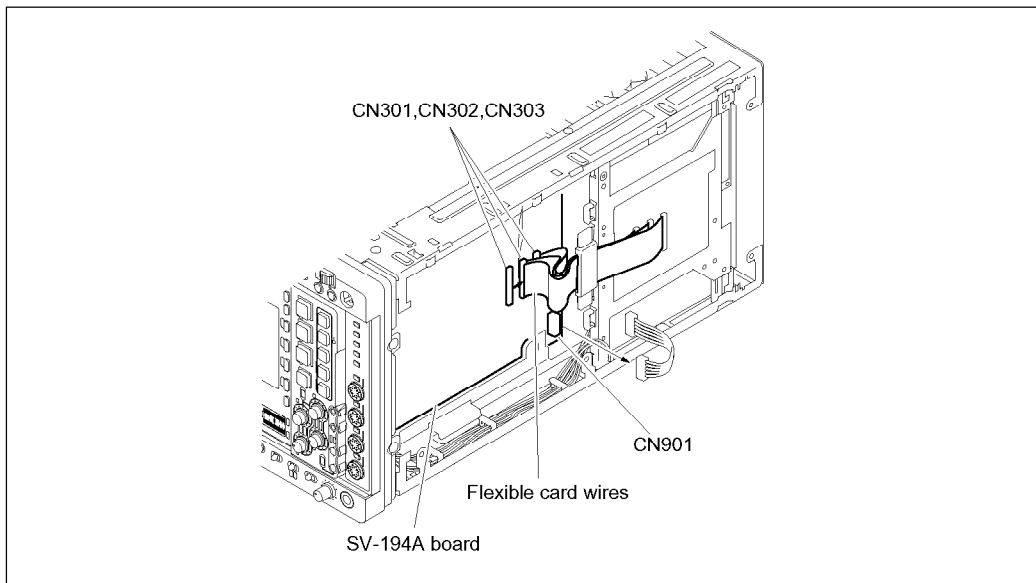
Stop washer fastening tool : J-6323-530-A

- Insert a stop washer into the thin tip of a stop washer fastening tool.
- Put the thin tip of the tool on the top of the shaft to be installed in a upright position.
- Push the tool downward and install the stop washer to the shaft.



5-1-6. Mechanical Deck Assembly Removal and Reinstallation

1. Remove the top plate. (Refer to Section 1-4-1.)
2. Remove the bottom plate. (Refer to Section 1-4-2.)
3. Remove the DM-114/114P board. (Refer to Section 1-6-2.)
4. Disconnect the three flexible card wires from the connectors (CN301, CN302, and CN303) on the SV-194A board.
5. Disconnect the harness connector from the connector (CN901) on the SV-194A board.
6. Put the unit back to the original position.



7. Remove the cassette compartment. (Refer to Section 1-5.)
8. Disconnect the harness connector from the connector (CN1) on the SV-194A board.
9. Unfasten the harness clamp A shown in the figure.
10. Disconnect the harness connector (CN1) from the drum assembly board.
11. Disconnect the brush harness from the connector.
12. Disconnect the harness connector from the connector (CN801) on the SV-194A board.
13. Disconnect the harness connector of the AT head from the connector (CN1) on the PA-218 board.
14. Unfasten the AT head harness from the two harness clamps (C and D).
15. Disconnect the harness connector from the connector (CN602) on the SV-194A board.
16. Loosen the four hexagon cap screws fully shown in the figure.

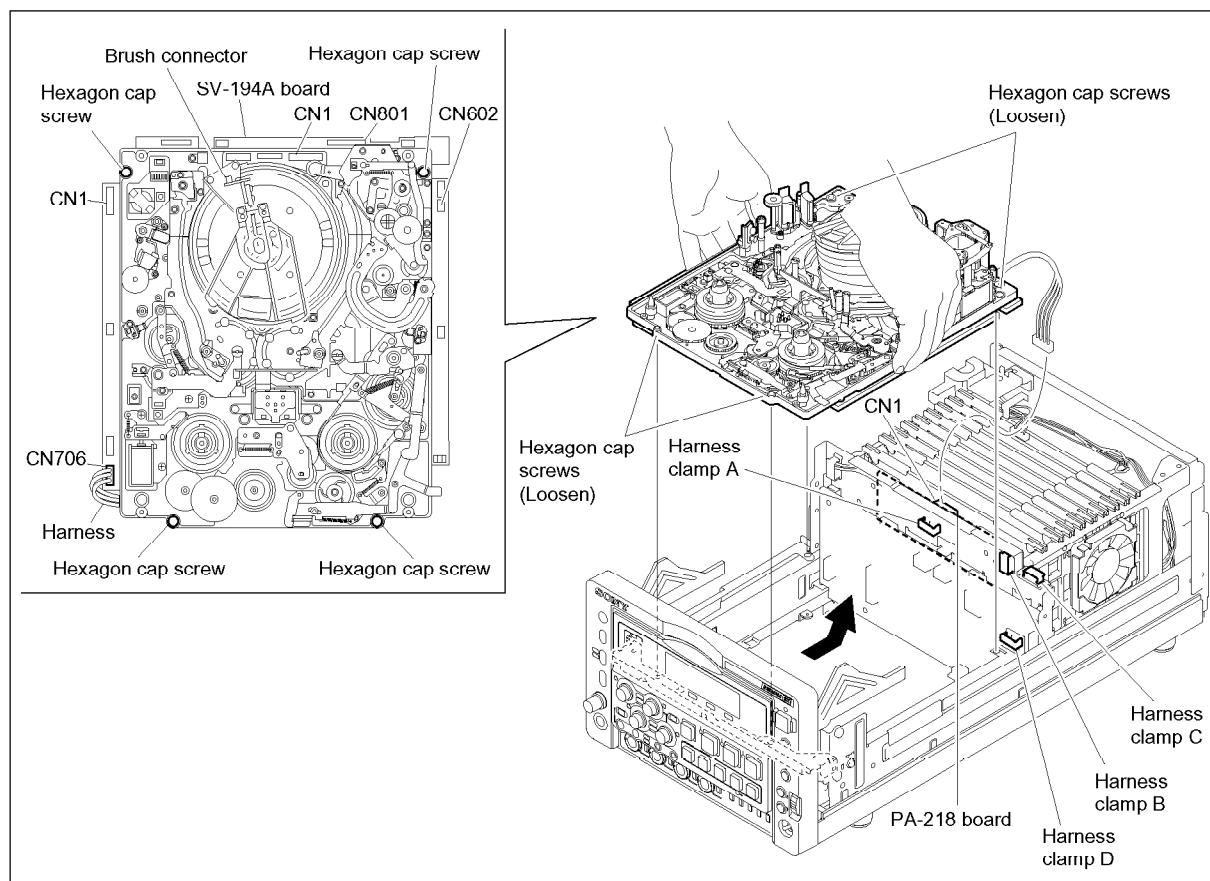
Note

Each screw has a stopper to prevent it from being removed.

17. While keeping the red and blue harnesses connected to the connector CN706 on the SV-194A board out of the way of removal, lift the mechanical deck out in the direction indicated by the arrow.

Note

Put the mechanical deck on a soft cushion (e.g., sponge). Particularly, be careful not to apply excessive force to the hybrid IC on the SV-194A board faces up.

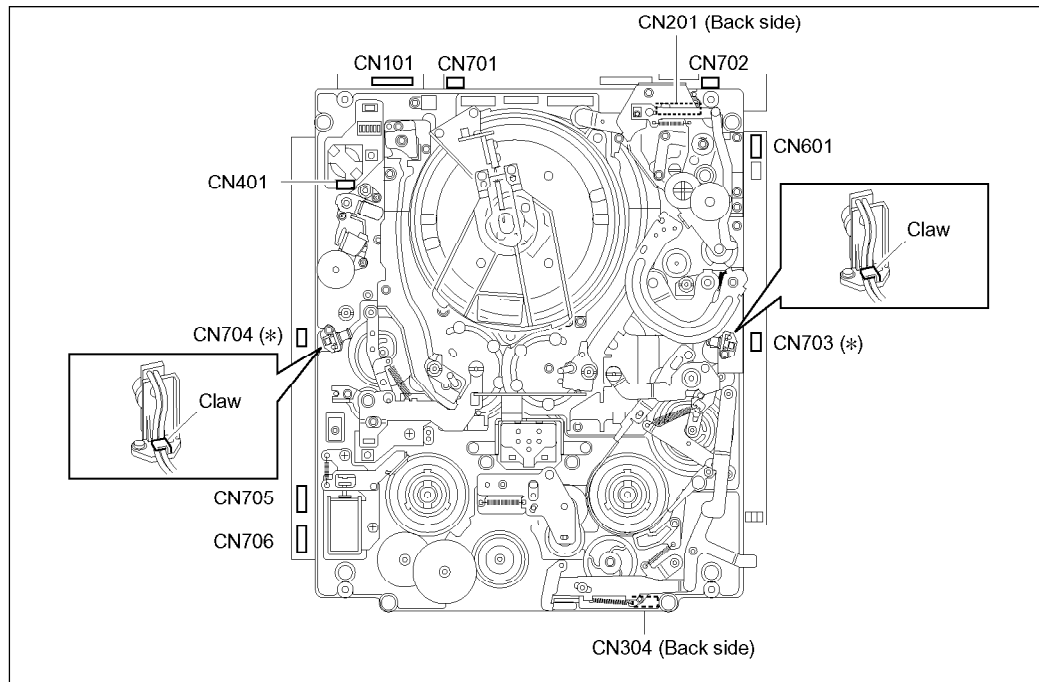


18. Disconnect the harness from the connectors on the SV-194A board below.

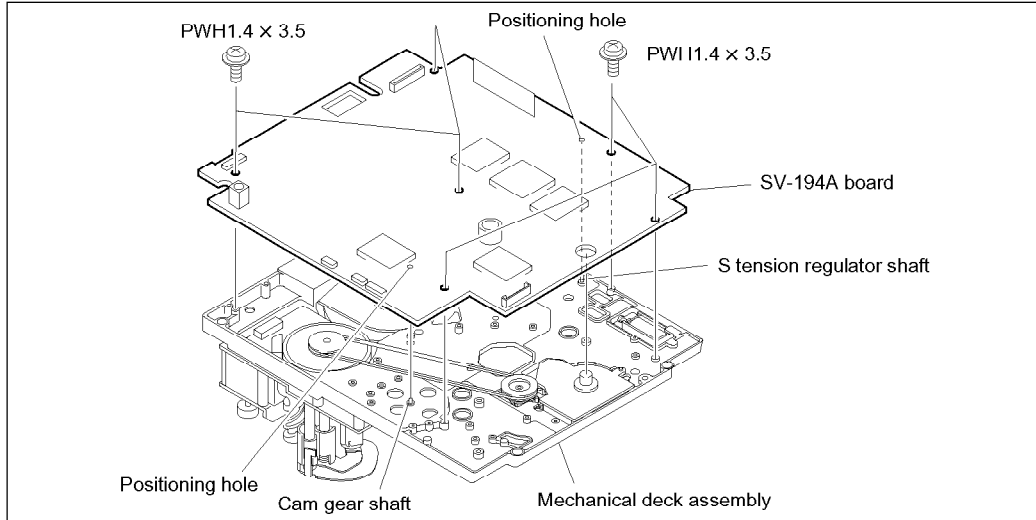
- CN101 (Drum SV harness)
- CN701 (Dew condensation sensor harness)
- CN702 (Threading motor harness)
- CN601 (AT head harness)
- CN201 (Capstan motor harness)
- CN703 (Tape top sensor harness) (*)
- CN304 (S reel motor harness)
- CN706 (Brake solenoid harness)
- CN705 (Tension sensor harness)
- CN704 (Tape end sensor harness) (*)
- CN401 (Entrance head harness)

Note

When disconnecting the connector with * mark, being careful not to break the claw of the harness clamp portion on the sensor holder, disconnect the harness while holding the claw by a finger.



19. Remove the six screws, and then remove the SV-194A board.

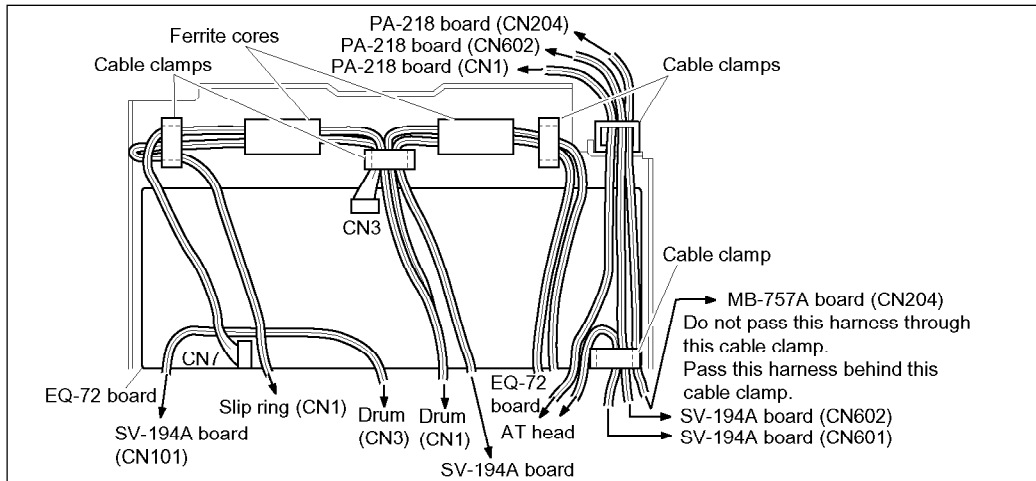


20. Reattach the mechanical deck assembly in the reverse order of removal.

Note

After reattaching the mechanical deck, arrange the harness around the EQ-72 board.

- (1) Clamp the harnesses between the EQ-72 board and drum assembly with the five cable clamps shown in the figure.
- (2) Press the harnesses around the drum assembly toward the EQ-72 board so as not to contact them with drum assembly.
- (3) Arrange the harnesses around the right side of the chassis shown in the figure so as not to come loose from the chassis.



Note

Perform the confirmation or adjustment below after reattaching the mechanical deck assembly.

- Tape running check or adjustment
- Video tracking check or adjustment
- CTL head position check or adjustment
- AT head position check or adjustment

5-2. Upper Drum Assembly Replacement

Outline

Replacement

Drum cover removal
Brush assembly removal
Slip ring assembly removal
Upper drum assembly removal
Installation surfaces cleaning
Upper drum assembly installation
Slip ring assembly reinstallation
Brush assembly reinstallation
Drum cover reinstallation
Video head and tape running surfaces cleaning

Adjustment after replacement

Video tracking adjustment
CTL head position adjustment
AT head position adjustment
Electrical adjustment after drum replacement

Precaution

Replace the upper drum assembly when the video heads are worn or damaged. Only the head chip cannot be replaced independently.

Basic knowledge

For except the periodic replacement, replace the upper drum in the following case.

- When no proper RF waveform is obtained even if the tracking adjustment is performed

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- | | |
|--|--------------|
| • Torque screwdriver bit (for M2) : | J-6325-380-A |
| • Hexagon bit (Across flat has 1.5 mm) : | J-6326-120-A |
| • Torque screwdriver (for 3 kg) : | J-6325-400-A |
| • L-shaped wrench (Across flat has 1.5 mm) : | 7-700-736-05 |
| • Cleaning cloth (15 cm × 15 cm) : | 3-184-527-01 |
| • Cleaning liquid : | 9-919-573-01 |

Removal

1. Drum cover removal

Remove the drum cover. (Refer to Section 5-3.)

2. Brush assembly removal

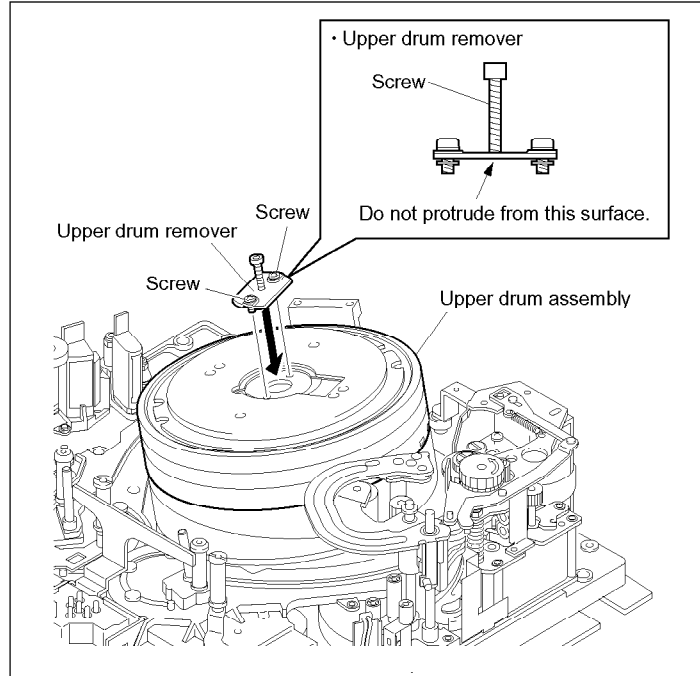
Remove the brush assembly.
(Refer to Section 5-3.)

3. Slip ring assembly removal

Remove the slip ring assembly.
(Refer to Section 5-4.)

4. Upper drum assembly removal

- (1) Prepare the upper drum remover supplied with a new upper drum assembly.
Loosen the screw of the upper drum remover being careful not to protrude the screw from the installation surface.
- (2) Attach the upper drum remover to the upper drum assembly with the two screws.



- (3) Insert the L-shaped wrench into the holes on the upper drum assembly board, and then fully loosen the four screws which fixing the upper drum.

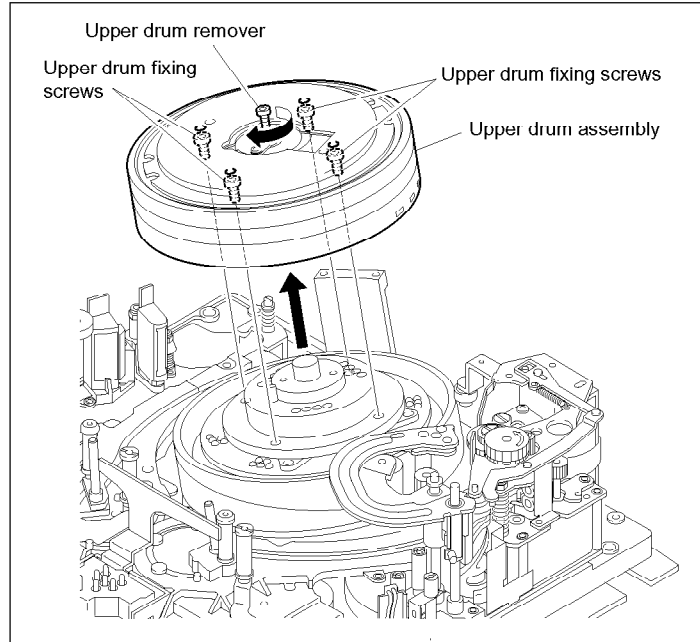
Note

Be sure to fully loosen the four upper drum fixing screws. Do not turn the screw of the upper drum remover without loosening these screws fully. If not, this may damage the lower drum.

- (4) Tighten the screw in the center of the upper drum remover using an L-shaped wrench, and then lift out the upper drum assembly in the direction indicated by the arrow.



Note

Be careful not to damage the upper edge of the lower drum after removing the upper drum assembly.



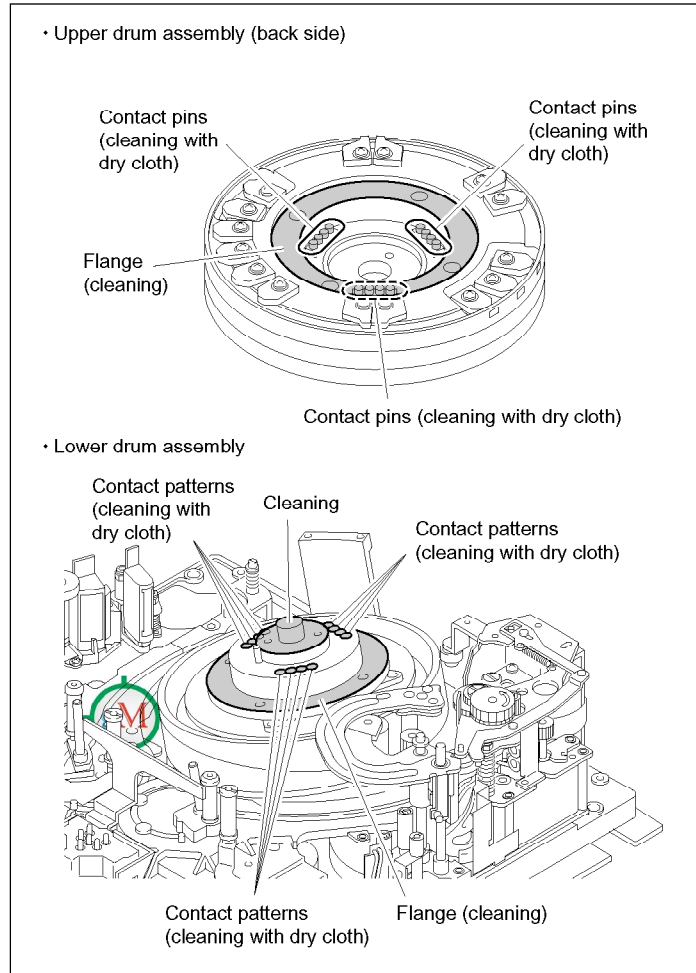
Reinstallation

5. Installation surfaces cleaning

- (1) Clean the following portions with cleaning cloth moistened with cleaning fluid.
 - Flange surfaces of the lower drum ( portions shown in the figure)
 - Tape running surface and lead of the lower drum
 - Installation surface of a new upper drum assembly ( portion shown in the figure)
- (2) Wipe the twelve contact pins of the upper drum and the twelve contact patterns of the lower drum board.

Note

Do not apply cleaning fluid to the contact pins and contact patterns.

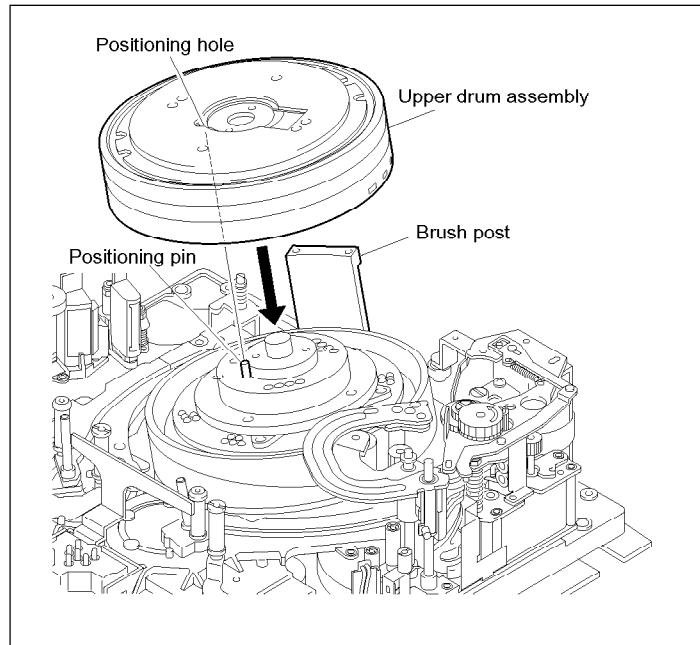


6. Upper drum assembly installation

- (1) Align the positioning hole of the upper drum assembly with the positioning pin of the lower drum as shown in the figure, and then put the upper drum assembly on the lower drum. At that time, ensure that the positioning pin protrudes from the upper surface of the upper drum.

Notes

- Grasp the upper drum assembly by the portion where the video heads does not exist.
- Take care that the video heads does not contact with the brush post and its peripheral parts when attaching the upper drum assembly.
- When the upper drum assembly is put on the lower drum, never push the outer circumferential part of the drum.

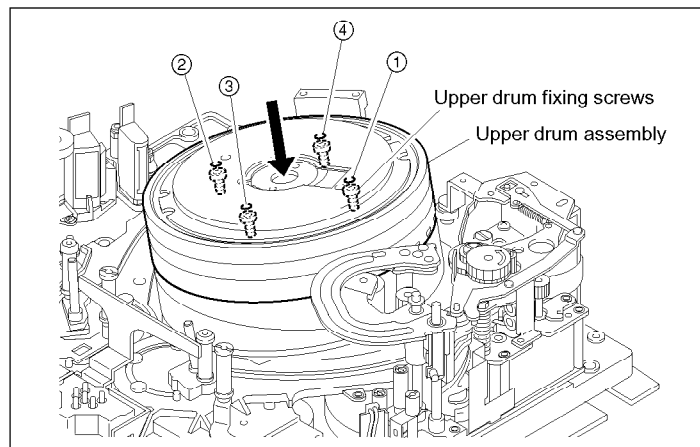


- (2) Push the center part of the upper drum with a finger just downward to bring the upper drum in contact with the flange of the lower drum.
- (3) While keeping the state in step (2), tentatively tighten the four screws in the order shown in the figure at the following torque.

Tightening torque : $10 \times 10^{-2} \text{ N}\cdot\text{m}$
 { 1.0 kgf·cm }

- (4) Tighten the four screws at the following torque.

Tightening torque : $25 \times 10^{-2} \text{ N}\cdot\text{m}$
 { 2.5 kgf·cm }



7. Slip ring assembly reinstallation

Install the slip ring assembly.
(Refer to Section 5-4.)

8. Brush assembly reinstallation

Install the brush assembly. (Refer to Section 5-3.)

9. Drum cover reinstallation

Install the drum cover. (Refer to Section 5-3.)

10. Video head and tape running surfaces cleaning

Clean the portions below with a cleaning cloth moistened with a cleaning fluid.

- Tape running surface of the upper drum and video heads (Refer to Section 4-2-3.)
- Lead and tape running surface of lower drum (Refer to Section 4-2-4.)

Note

After cleaning, wipe with a dry cleaning cloth.

Adjustment after replacement

11. Video tracking adjustment

(Refer to Section 7-5.)

12. CTL head position adjustment

(Refer to Section 7-7.)

13. AT head position adjustment

(Refer to Section 7-8.)

14. Electrical adjustment after drum replacement

(Refer to Section 8.)

5-3. Brush Replacement

Outline

Replacement

Drum cover removal

Brush assembly removal

Brush assembly installation

Drum cover reinstallation

Precautions

- The adjustment after replacement is not required in this case.
The relative height and contact pressure to the slip ring are automatically adjusted after installing the brush assembly according to the procedures below.
- Never clean the brush surface with a cleaning cloth moistened with a cleaning fluid.

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)

Reference

The brush assembly can be replaced with the cassette compartment attached.

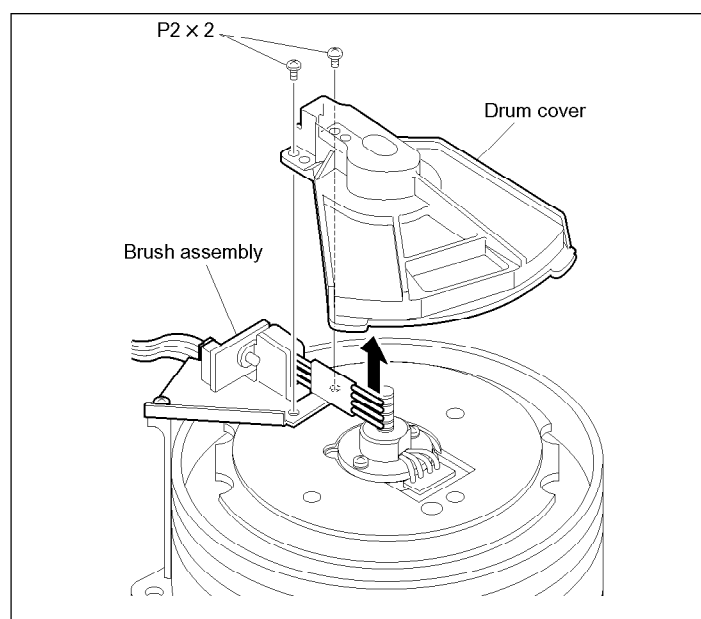
Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A

Removal

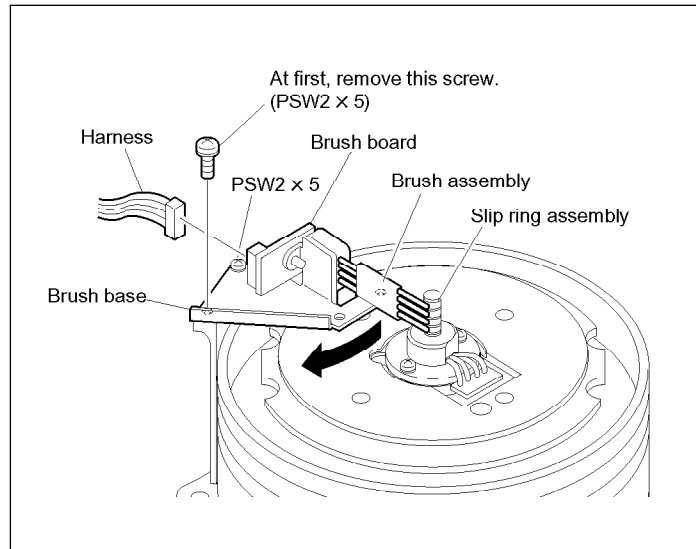
1. Drum cover removal

Remove the two screws to remove the drum cover.



2. Brush assembly removal

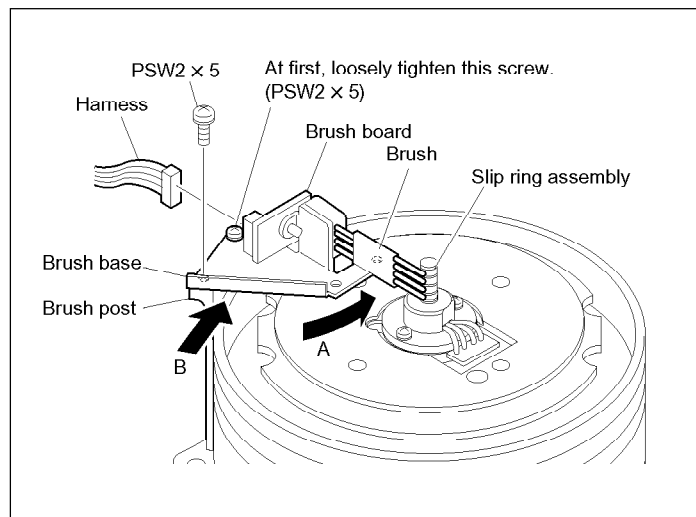
- (1) Disconnect the harness connected to the brush board.
- (2) Remove the screw shown in the figure of the two screws fixing the brush base.
- (3) Loosen the other screw, and then move the brush base in the direction indicated by the arrow.
The engagement of the brush and slip ring is then released.
- (4) Remove the screw, and then remove the brush assembly.



Installation

3. Brush assembly installation

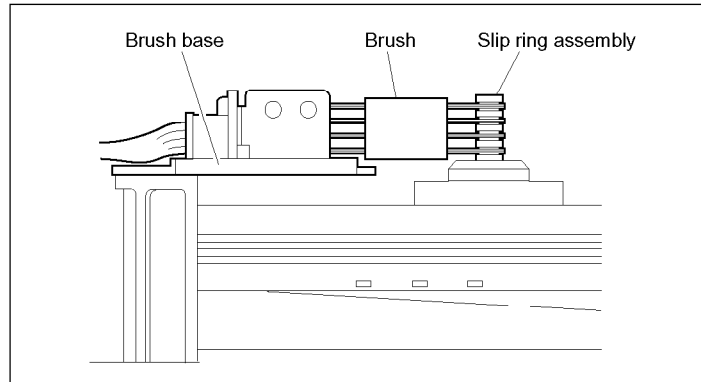
- (1) Fix the brush base tentatively to the brush post with the screw shown in the figure.
Note
 Never touch the brush.
- (2) Move the brush base in the direction indicated by arrow A while pushing it downward at the top of the brush post, and loosely tighten the other screw.
- (3) While pushing the brush base in the direction indicated by arrow B, tighten the two screws again.
 Tightening torque : $20 \times 10^{-2} \text{ N} \cdot \text{m}$
 $\{2.0 \text{ kgf} \cdot \text{cm}\}$
- (4) Reconnect the harness disconnected in step (1) of procedure 2 to the connector on the brush board.



- (5) Ensure that the brush precisely contacts the grooves of the slip ring.

Reference

The brush height and the contact pressure to the slip ring are automatically adjusted by executing steps (1) to (3).



4. Drum cover reinstallation

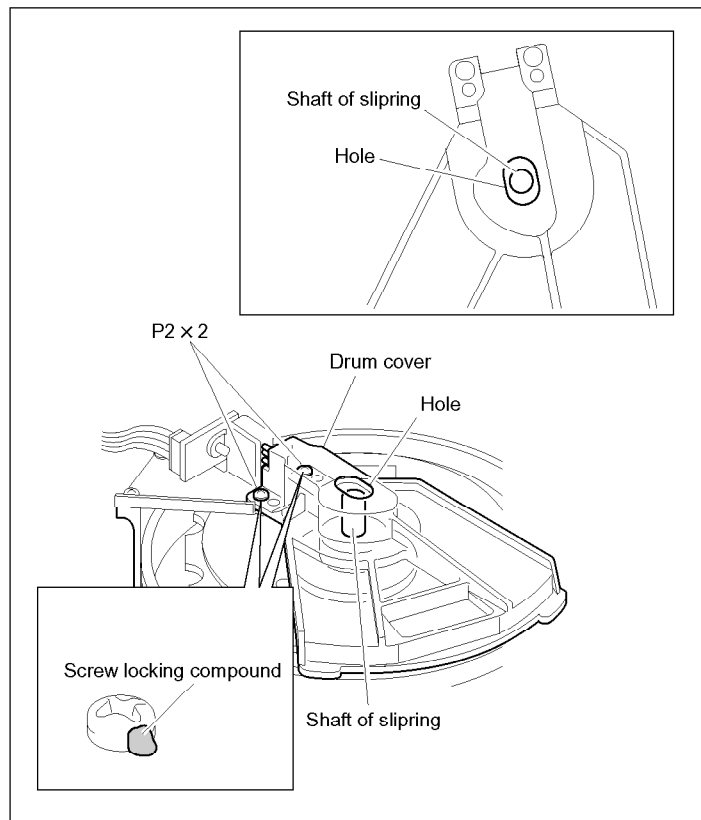
- (1) Align the drum cover so that the shaft of the slip ring is almost located in the center of the hole at the tip of the drum cover, and then fix the cover with the two screws.

Tightening torque : $10 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{ 1.0 \text{ kgf}\cdot\text{cm} \}$

Note

Be careful not to apply an excessive force to the brush base.

- (2) Apply the screw locking compound to the two screws.
 (3) Recheck that the brush precisely contacts the grooves of the slip ring.



5-4. Slip Ring Assembly Replacement

Outline

Replacement

Drum cover removal
Brush assembly removal
Slip ring assembly removal
Slip ring assembly installation
Brush assembly reinstallation
Drum cover reinstallation

Precautions

- The adjustment after the slip ring assembly replacement is not required.
- Never clean the slip ring surface with cleaning cloth moistened with cleaning fluid.

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)

Reference

The brush assembly can be replaced with the cassette compartment attached.

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A

Removal

1. Drum cover removal

Remove the drum cover. (Refer to Section 5-3.)

2. Brush assembly removal

Remove the brush assembly. (Refer to Section 5-3.)

5-5. Drum Assembly Replacement

Outline

Replacement

Drum assembly removal
Installation surfaces cleaning
Drum assembly installation
Video heads and tape running surfaces cleaning

Adjustment after replacement

Tape running adjustment
Video tracking adjustment
CTL head position adjustment
AT head position adjustment
Electrical adjustment after drum replacement

Precaution

Be careful not to damage the CTL head, AT head, and peripheral tape guides when replacing the drum assembly.

Take care that the video heads of the drum assembly is not damaged during replacement.

Basic knowledge

For except the periodic replacement, the drum assembly replacement is required in the following cases :

- When the damaged upper drum assembly or tape running surface cannot be recovered
- When no proper RF waveform can be obtained during tracking adjustment because of the worn upper drum assembly or lower drum
- When the VTR performance cannot be satisfied due to noises or jitters because of its bearing life

Preparations

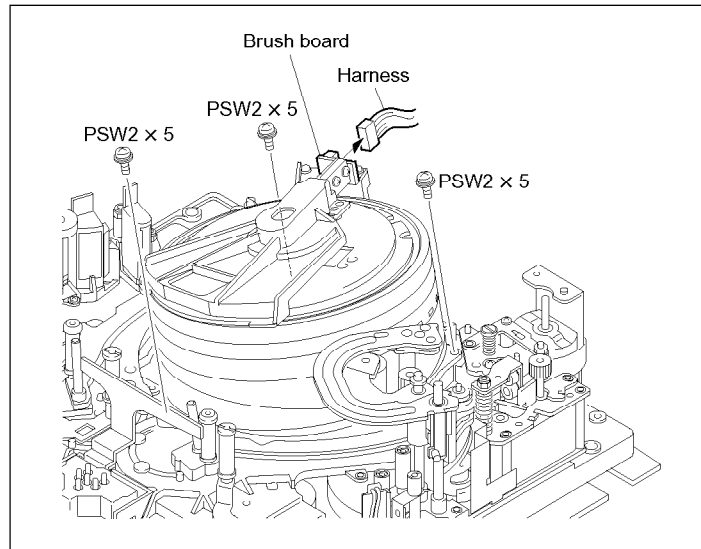
1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)
5. Remove the VH cleaner assembly. (Refer to Section 5-6.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

1. Drum assembly removal

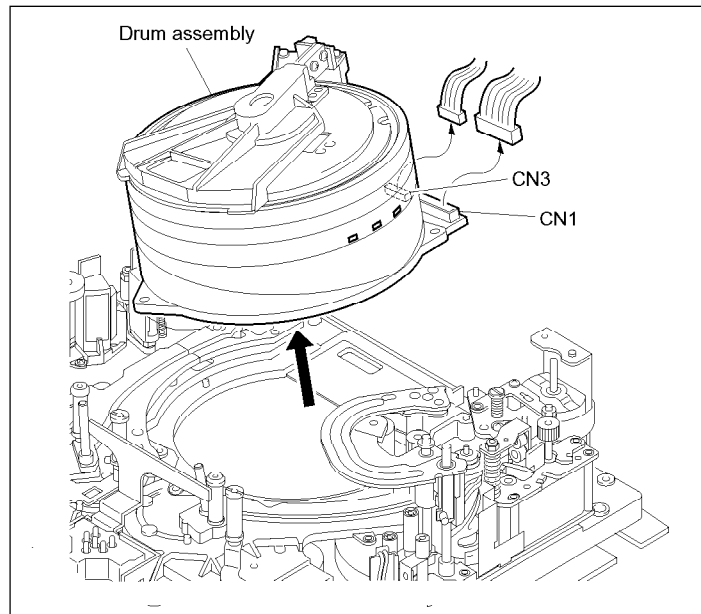
- (1) Disconnect the connector connected to the brush board.
- (2) Remove the three screws fixing the drum assembly.



- (3) Lift the drum assembly out just above, and then disconnect the two connectors (CN1 and CN3) connected to the board below the drum. The drum assembly can be then removed.

Note

Be careful not to damage the CTL head, AT head, and peripheral tape guides when removing the drum assembly.



Installation

2. Installation surfaces cleaning

Wipe the installation surfaces of a new drum assembly and chassis with a cleaning cloth moistened with a cleaning fluid.

3. Drum assembly installation

- (1) Hold the new drum assembly and connect the two connectors (CN1 and CN3) disconnected in step (3) of procedure 1.

Notes

- Be sure to grasp the drum assembly by portion in which no video heads exist when handling the new drum assembly.
- Take care that the drum assembly does not contact the CTL head, AT head, and peripheral tape guides.
- Do not apply an excessive force to the brush.

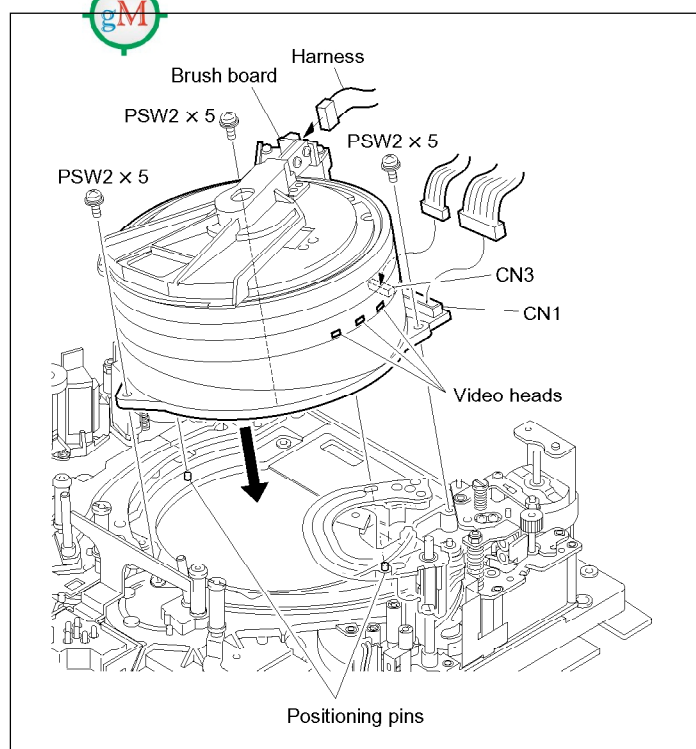
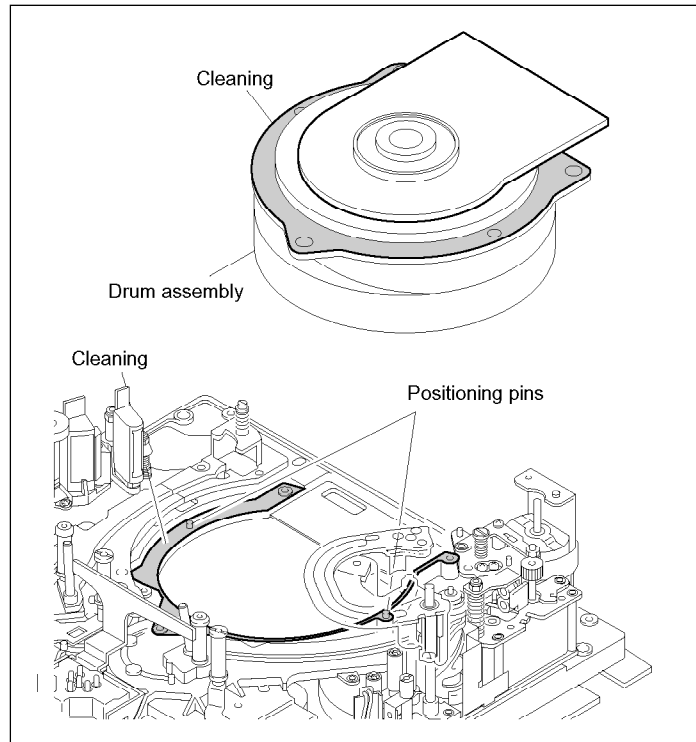
- (2) Connect the harness connector to the brush board.
- (3) Align the two positioning pins of the chassis with the holes of the drum assembly, and then put the drum.
- (4) Check that the positioning pins is firmly inserted into the drum assembly by moving the drum slightly.
- (5) Tighten the three screws.

Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{2.0 \text{ kgf}\cdot\text{cm}\}$

Note

Be sure to turn the drum so that the video heads are away from the screwdriver.

- (6) Ensure that the brush precisely contacts the grooves of the slip ring.



4. Video heads and tape running surfaces cleaning

Clean the portions below with a cleaning cloth moistened with a cleaning fluid.

- Tape running surfaces of the upper drum and video heads (Refer to Section 4-2-3.)
- Lead and tape running surfaces of lower drum (Refer to Section 4-2-4.)

Note

After cleaning, wipe with a dry cleaning cloth.

Adjustment after replacement

5. Tape running adjustment

(Refer to Section 7-4.)

6. Video tracking adjustment

(Refer to Section 7-5.)

7. CTL head position adjustment

(Refer to Section 7-7.)

8. AT head position adjustment

(Refer to Section 7-8.)

9. Electrical adjustment after drum replacement

(Refer to Section 8)

5-6. Video Head Cleaner Replacement

Outline

Replacement

VH cleaner assembly removal
AHC roller assembly replacement
VH cleaner assembly reinstallation
Operation check

Precautions

- The video head cleaner can be replaced with the cassette compartment attached.
- The following new CR cap is required when replacing the video head cleaner.
CR cap : 3-615-320-01

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)

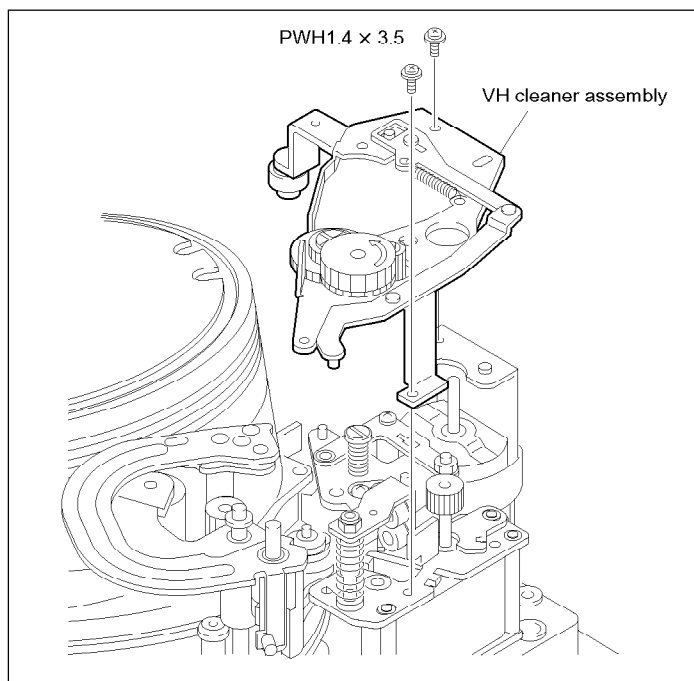
Tools

- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver (for 3 kg) : J-6325-400-A

Replacement

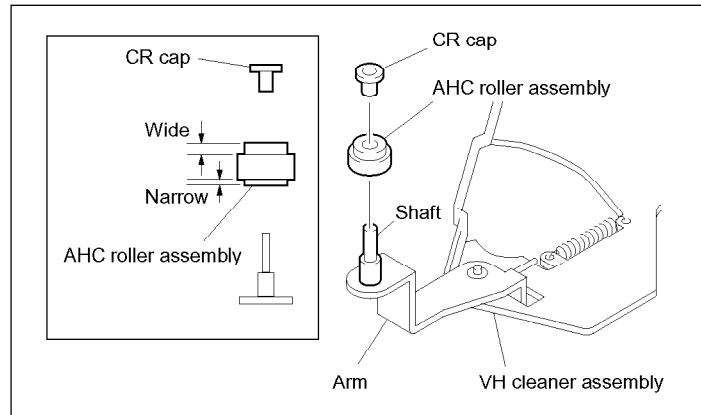
1. VH cleaner assembly removal

Remove the two screws to remove the VH cleaner assembly.



2. AHC roller assembly replacement

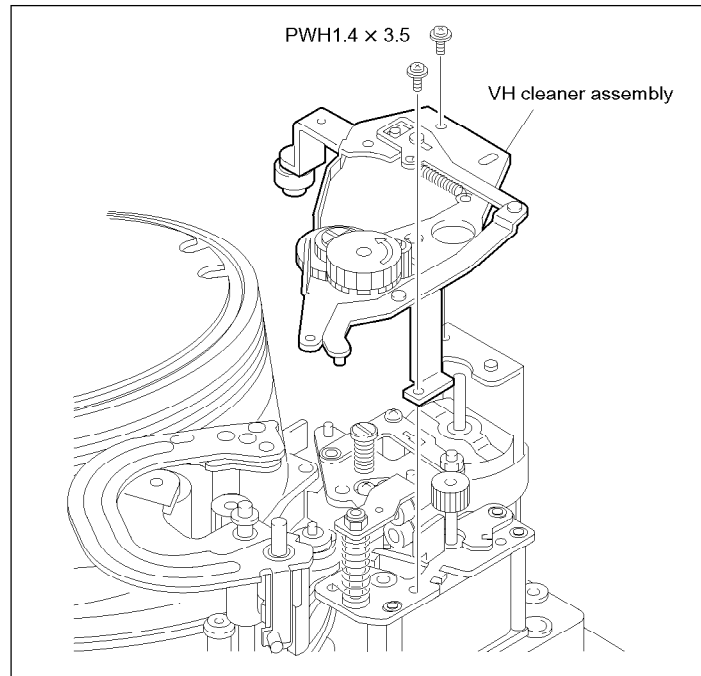
- (1) Pull the CR cap out and extract the AHC roller assembly.
- (2) Put a new AHC roller assembly into the shaft in the direction indicated by the figure.
- (3) Attach a new CR cap and push the cap firmly as far as it will go while supporting the arm by finger.



3. VH cleaner assembly reinstallation

- (1) Reattach the VH cleaner assembly with the two screws.

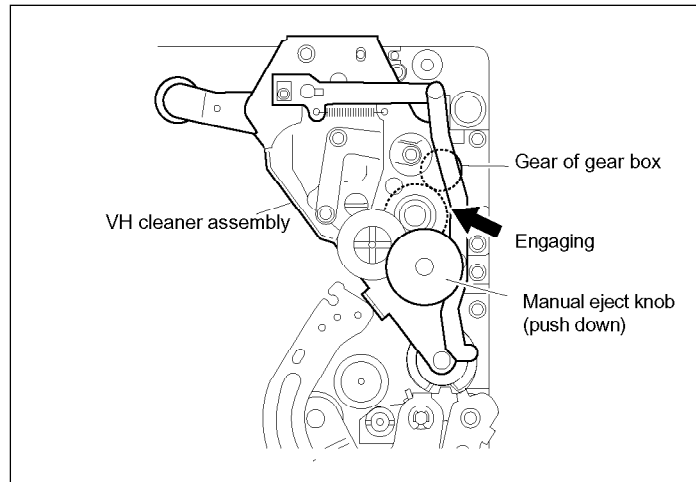
Tightening torque: $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$



- (2) Check to see that the gear of the VH cleaner assembly is engaged with the gear of the gear box when the manual eject knob is pushed down.

4. Operation check

Check that the AHC roller assembly contacts to the drum, or releases from the drum when turning the manual eject knob clockwise and counter-clockwise.



5-7. Pinch Roller Replacement

Outline

Replacement

T drawer sub assembly removal
Pinch roller replacement
T drawer sub assembly reinstallation
Cleaning
Operation check

Adjustment after replacement

Tape running adjustment

Precaution

The following new E ring is required when replacing the pinch roller.

E ring (2.3) : 7-624-105-04

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

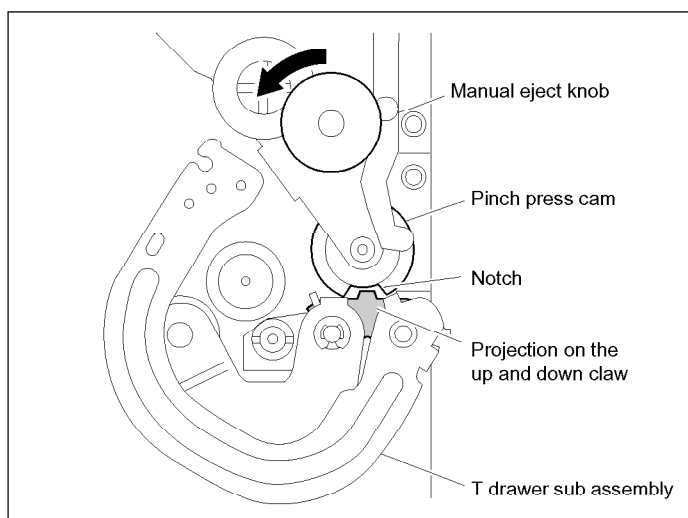
Tools

- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Oil : 7-611-018-18

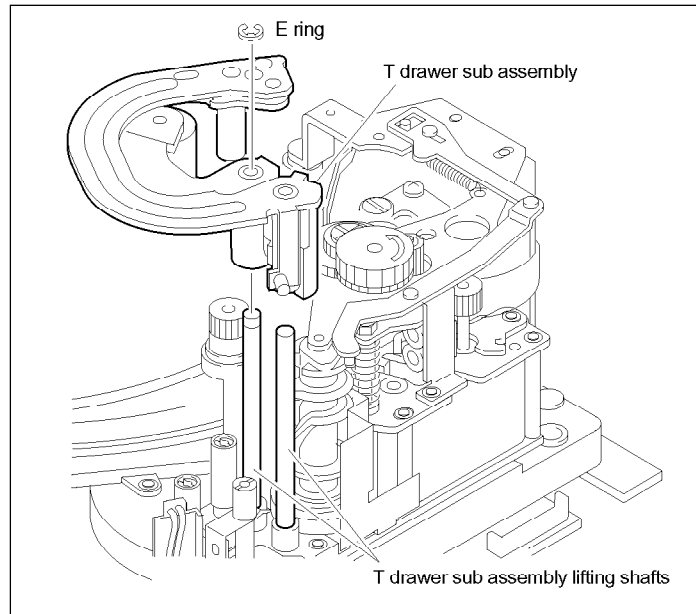
Replacement

1. T drawer sub assembly removal

- (1) Turn the manual eject knob counterclockwise while pressing down so that the notch of the pinch press cam fits with the projection on the up and down claw of the T drawer sub assembly.



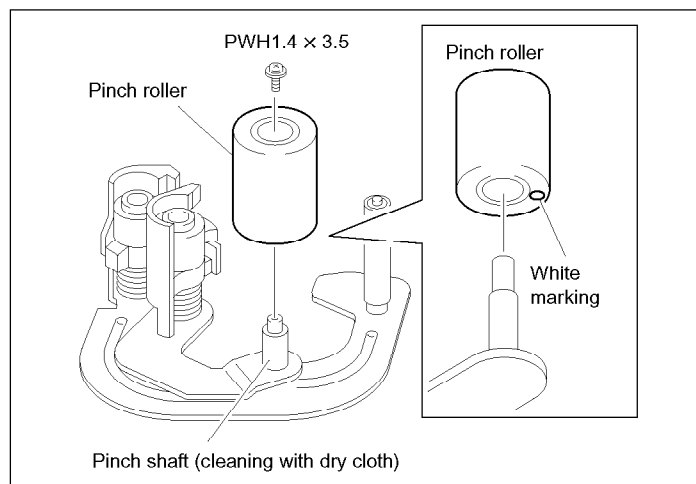
- (2) Remove the E ring of the T drawer sub assembly lifting shaft with tweezers.
- (3) Lift the T drawer sub assembly out just above from the shafts.



2. Pinch roller replacement

- (1) Remove the one screw to remove the pinch roller.
- (2) Wipe the pinch shaft with a dry soft-cloth.
- (3) Attach a new pinch roller into the pinch shaft in the direction indicated by the figure and fix it with the screw.

Tightening torque: $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$



3. T drawer sub assembly reinstallation

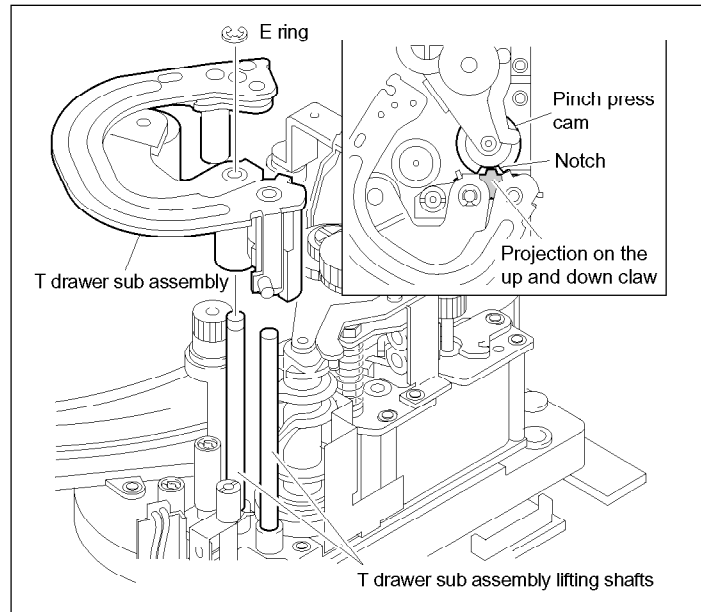
- (1) Wipe the T drawer sub assembly lifting shafts with a cleaning cloth moistened with a cleaning fluid.
- (2) Apply a quarter drop of oil to the shafts.
- (3) Put the holes of the T drawer sub assembly into the T drawer sub assembly lifting shafts while putting the projection on the up and down claw of the T drawer sub assembly into the notch of the pinch press cam.
- (4) Install a new E ring to the T drawer sub assembly lifting shaft.

4. Cleaning

Clean the surface of the pinch roller and T3 tape guide with cleaning cloth moistened with cleaning fluid. (Refer to Section 4-2-6.)

5. Operation check

Check that the pinch roller is engaged to the capstan shaft when the unit is in the threading end state.

**Adjustment after replacement****6. Tape running adjustment**

(Refer to Section 7-4.)

5-8. Swing Gear Replacement

Outline

Replacement

Timing belt removal
Swing gear replacement
Timing belt reinstallation

Adjustment after replacement

Tape running adjustment

Precautions

- The mechanical deck assembly should be removed from the unit when the swing gear is replaced. Be careful not to damage the video heads, drum, and other parts during removal.
- The following new stop washer is required when replacing the swing gear.
Stop washer (ø2.5) : 3-315-384-11

Preparations

1. Turn off the power.
2. Remove the mechanical deck assembly. (Refer to Section 5-1-6.)

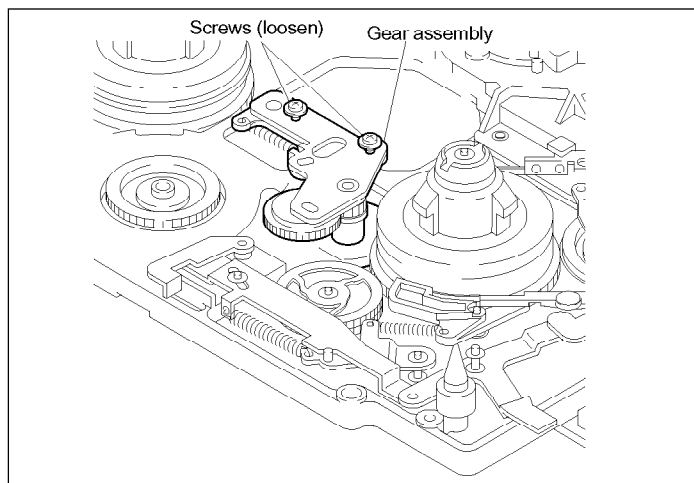
Tools

- Hexagon bit (Across flat has 1.5 mm) : J-6326-120-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Stop washer fastening tool : J-6323-530-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

Removal

1. Timing belt removal

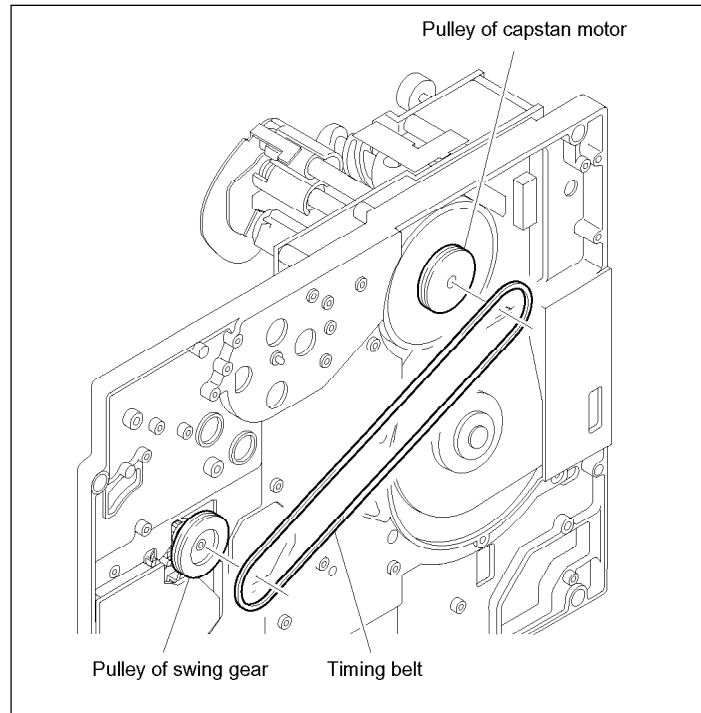
- (1) Loosen the two screws shown in the figure of the gear assembly by one half to one turn.



- (2) Remove the timing belt from the pulleys on the back of the mechanical deck.

Note

Be careful not to stretch or bend the removed timing belt.

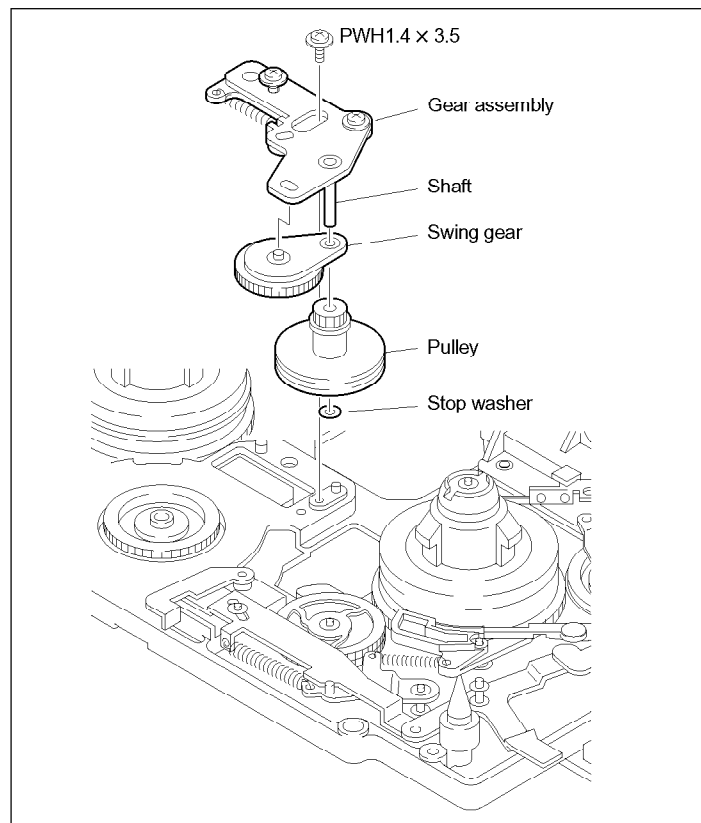


Installation

2. Swing gear replacement

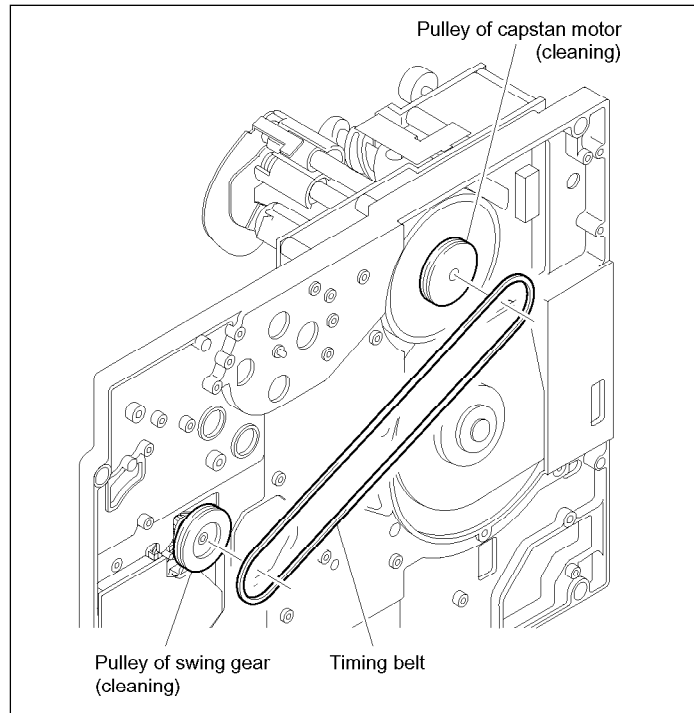
- (1) Remove the screw to remove the gear assembly from the mechanical deck.
- (2) Remove the stop washer, and then pull out the swing gear and pulley.
- (3) Clean the shaft of the gear assembly with a dry soft-cloth.
- (4) Apply one half of oil to the shaft of the gear assembly.
- (5) Insert the shaft of the gear assembly into the hole of the new swing gear.
- (6) Insert the shaft of the gear assembly into the hole of the pulley removed in step (2), and then fasten them using a new stop washer.
- (7) Attach the gear assembly onto the mechanical deck with the screw.

Tightening torque : $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$



3. Timing belt reinstallation

- (1) Wipe the pulleys of the swing gear and capstan motor with a cleaning cloth moistened with a cleaning fluid.
- (2) Loop the timing belt removed in procedure 1 over the pulley of the swing gear .
- (3) Loop the other end of the timing belt over the pulley of the capstan motor.

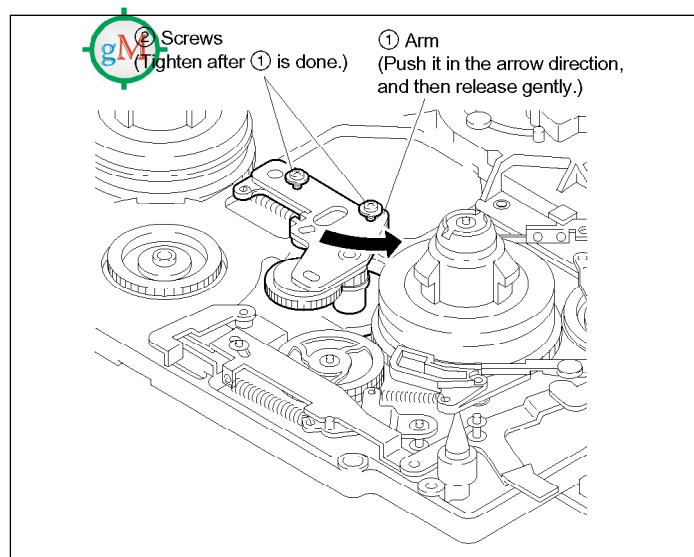


- (4) Move the arm of the gear assembly in the direction indicated by the arrow with fingers, and then release it gently. The arm of the gear assembly slightly returns in the clockwise direction by spring force.
- (5) Tighten the two screws loosened in step (1) of procedure 1. At that time, do not hold the arm of the gear assembly with fingers.
Tightening torque: $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$

Note

The tension of the timing belt is adjusted by performing steps (4) and (5).

- (6) Apply locking compound to the screws after tightening in step (5). When applying, avoid the slot of the screw.



Adjustment after replacement

4. Tape running adjustment

(Refer to Section 7-4.)

5-9. Tension Regulator Band Replacement

Outline

Replacement

T tension regulator arm assembly removal
Tension regulator band removal
Tension regulator band installation
T tension regulator arm assembly reinstallation

Adjustment after replacement

Tape running adjustment
REV back tension adjustment

Precaution

The following new stop washer is required when replacing the tension regulator band.

Stop washer (ø3.6) : 3-559-408-11

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

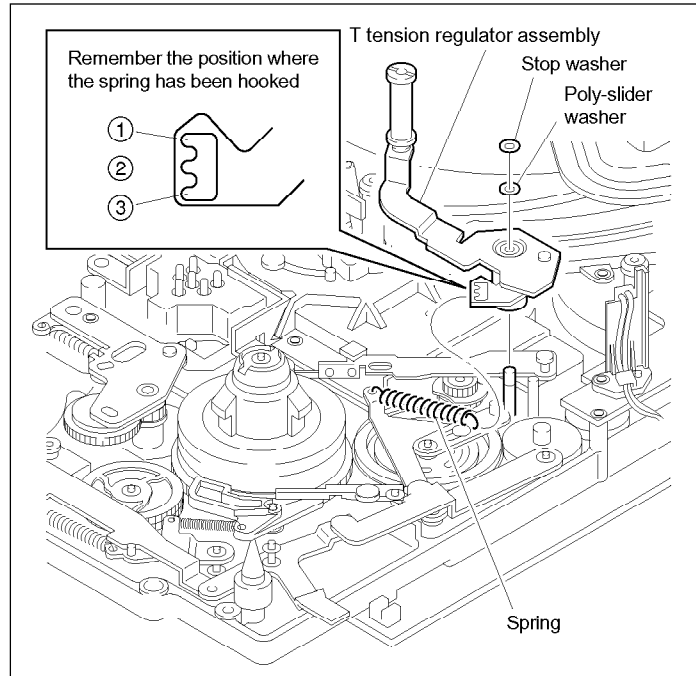
Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Stop washer fastening tool : J-6323-530-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

Removal

1. T tension regulator arm assembly removal

- (1) Unhook the spring of the T tension regulator arm assembly shown in the figure. At that time, be sure to remember the position where the spring has been hooked.
- (2) Remove the stop washer and poly-slider washer to remove the T tension regulator arm assembly.



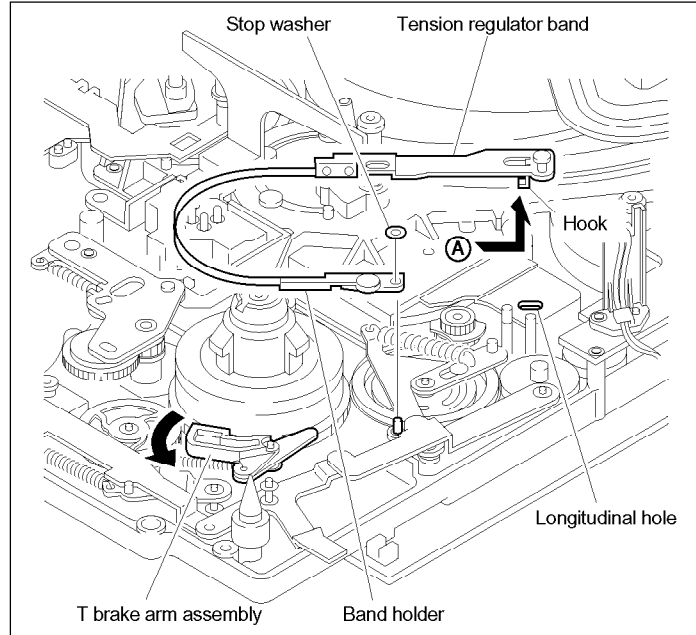
2. Tension regulator band removal

- (1) Remove the stop washer as shown in the figure.
- (2) Remove the band holder from the shaft of the band adjustment bracket while releasing the T brake arm with fingers.

Note

When releasing the T brake arm, do not give an excessive force to it.

- (3) Move the tension regulator band in the direction indicated by arrow A, remove the hook from the longitudinal hole of the T rail to remove the tension regulator band.



Installation

Note

Be careful not to bend or stain the tension regulator band.

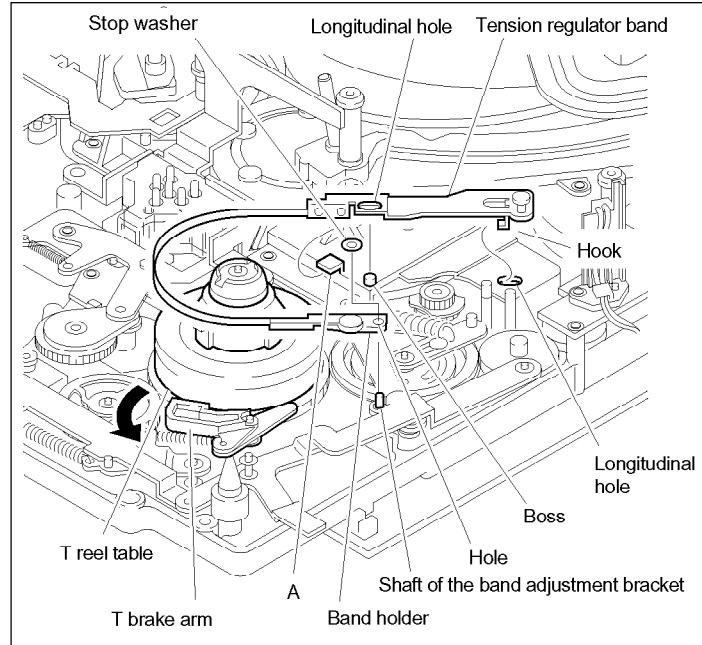
3. Tension regulator band installation

- (1) Clean the surface of the T reel table, that the tension regulator band contact, with a cleaning cloth moistened with a cleaning fluid.
- (2) Put the hook of a new tension regulator band into the longitudinal hole on the T rail.
- (3) Put the longitudinal hole of the tension regulator band to the boss on the T rail. At that time, make sure that the tension regulator band is passed under the portion A of the T rail.
- (4) Attach the tension regulator band around the T reel table while releasing the T brake arm with fingers.

Note

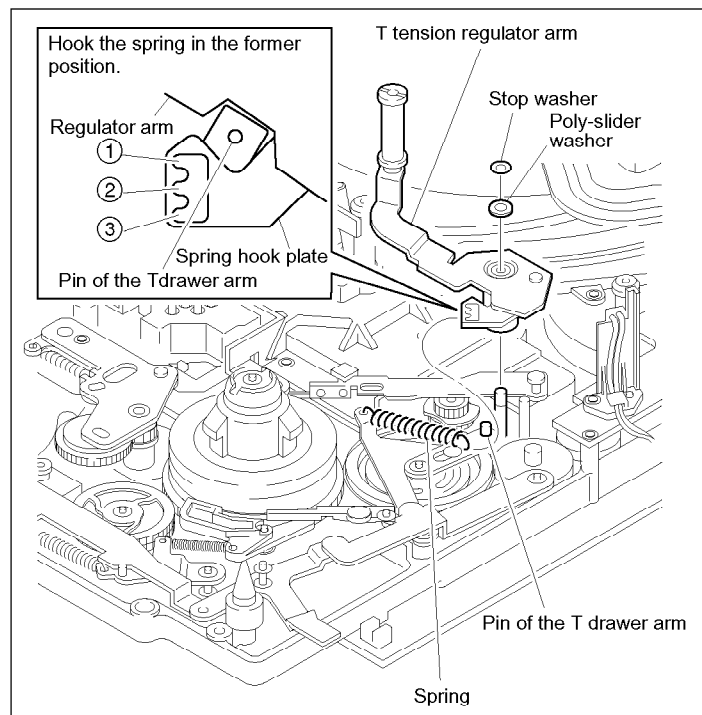
When releasing the brake arm, do not give a excessive force to it.

- (5) Put the hole of the band holder onto the shaft of the band adjustment bracket and fasten it using a new stop washer.



4. T tension regulator arm assembly reinstallation

- (1) Put the T tension regulator arm assembly onto the shaft of the mechanical deck so that pin of the T drawer arm is put between the spring hook plate and regulator arm of the T tension regulator arm assembly as shown in the figure, then attach a poly-slider washer, and fasten them using a new stop washer.
- (2) Hook the spring removed in step (1) of procedure 1 back in the original position.



Adjustment after replacement

5. Tape running adjustment

(Refer to Section 7-4.)

6. REV back tension adjustment

(Refer to Section 7-3-2.)

5-10. Timing Belt Replacement

Outline

Replacement

Timing belt removal

Timing belt installation

Adjustment after replacement

Tape running adjustment

Precaution

Remove the mechanical deck assembly from the unit when the timing belt is replaced. Be careful not to damage the video heads, drum, and other parts during removal.

Preparations

1. Turn off the power.
2. Remove the mechanical deck assembly. (Refer to Section 5-1-6.)

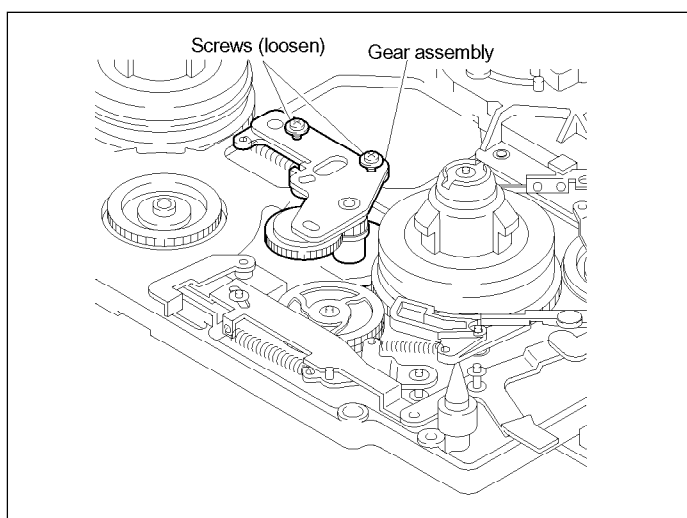
Tools

- Hexagon bit (Across flat has 1.5 mm) : J-6326-120-A
- Torque screwdriver bit (for M1.4) : J-6325-110-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

Removal

1. Timing belt removal

- (1) Loosen the two screws shown in the figure of the gear assembly by one half to one turn.

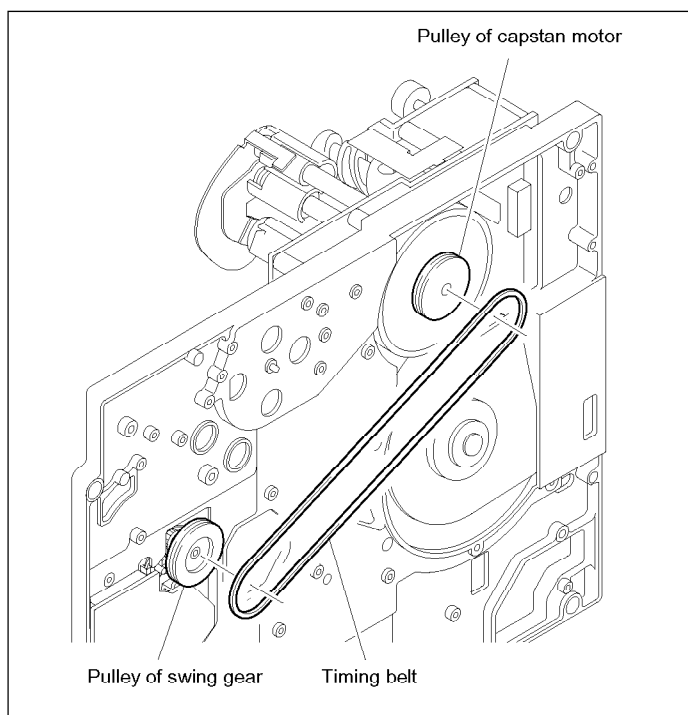


- (2) Remove the timing belt from the pulleys on the back of the mechanical deck.

Installation

2. Timing belt installation

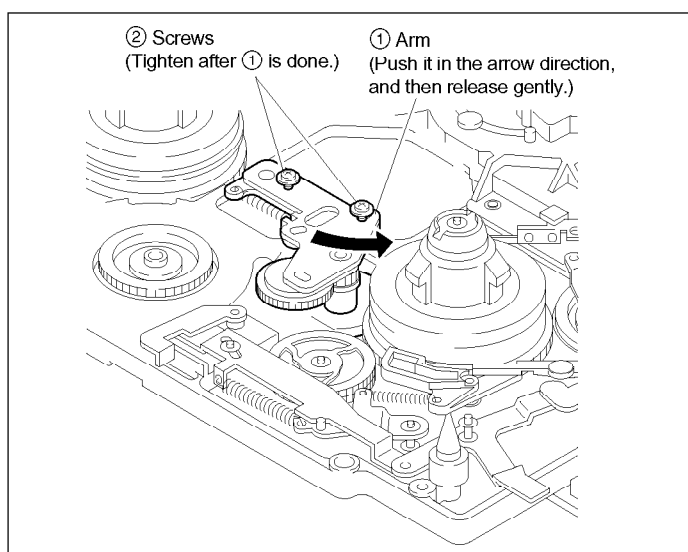
- (1) Clean the pulleys of the swing gear and capstan motor with cleaning cloth moistened with cleaning fluid.
- (2) Loop a new timing belt over the pulley of the swing gear.
- (3) Loop the other end of the timing belt over the pulley of the capstan motor.



- (4) Move the arm of the gear assembly in the direction indicated by the arrow with fingers, and then release it gently. The arm of the gear assembly slightly returns in the clockwise direction by spring force.
- (5) Tighten the two screws loosened in step (1) of procedure 1. At that time, do not hold the arm of the gear assembly with fingers.
Tightening torque : $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$

Reference

The tension of the timing belt is adjusted by performing steps (4) and (5).



- (6) Apply locking compound to the screws after tightening in step (5). When applying, avoid the slot of the screw.

Adjustment after replacement

3. Tape running adjustment

(Refer to Section 7-4.)

5-11. S Main Brake Shoe Replacement

Outline

Replacement

S brake assembly removal
Brake shoe replacement
S brake assembly reinstallation
Operation check

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

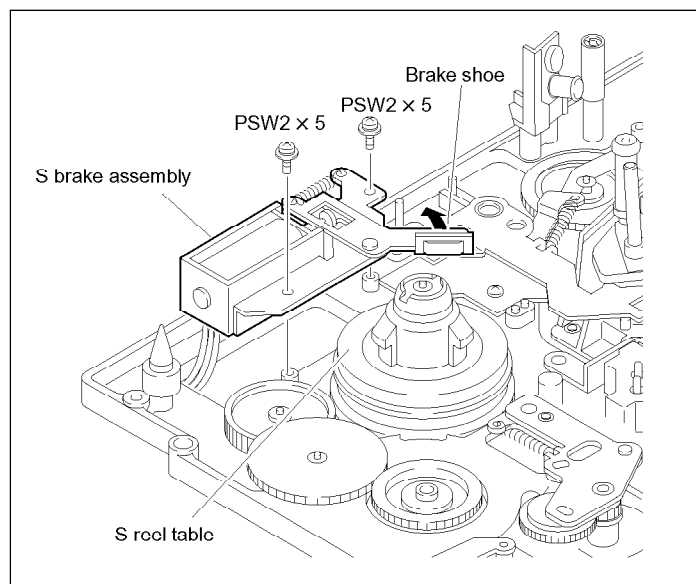
Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Cutter knife
- Tweezers

Replacement

1. S brake assembly removal

- (1) Remove the two screws.
- (2) While releasing the brake shoe from the S reel table, remove the S brake assembly.



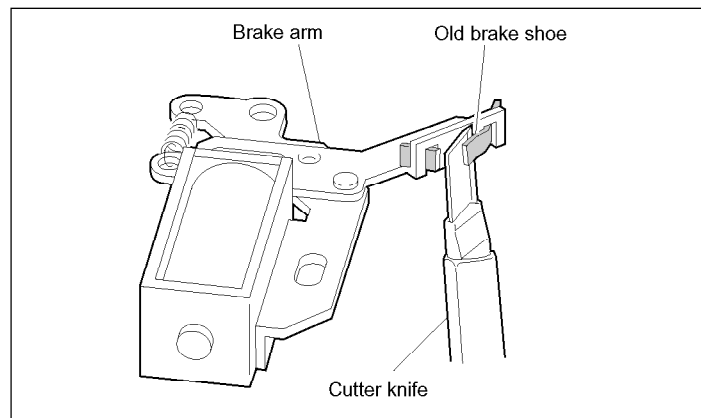
2. Brake shoe replacement

- (1) Tear off the old brake shoe from the brake arm.

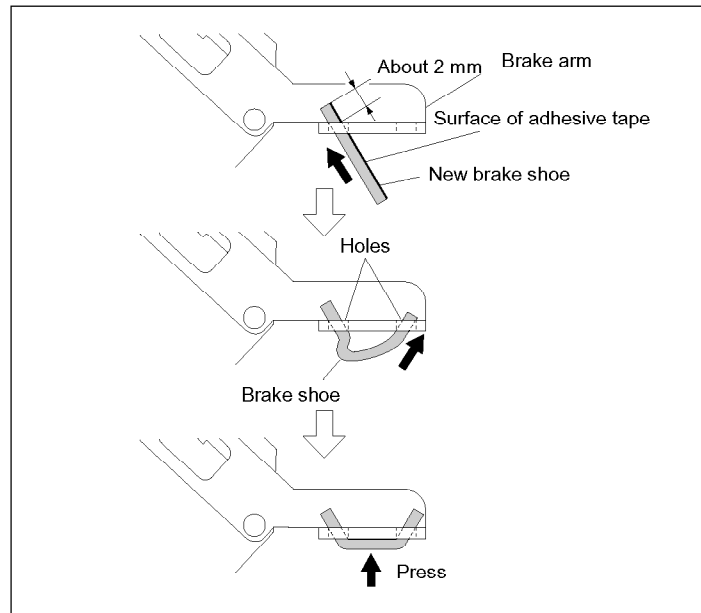
Note

Remove the glue glops of the old brake shoe completely from the brake arm using a cutter knife.

Pay careful attention when handling the cutter knife.



- (2) Hold a new brake shoe using tweezers, and then pass the end of the brake shoe through the hole of the brake arm as shown in the figure.
- (3) Pass the other end of the brake shoe through the hole of the brake arm.
- (4) Being careful not to bend the brake shoe, attach the brake shoe to the brake arm.



3. S brake assembly reinstallation

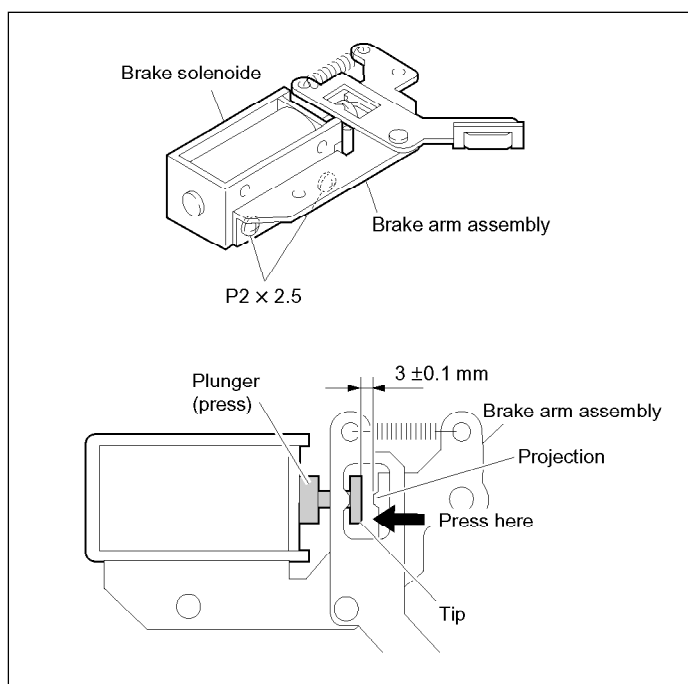
- (1) Make sure that the clearance between the tip of the plunger and the projection of the brake arm assembly meets the specification (3.0 ± 0.1 mm) when pressing the plunger in the direction of the arrow by finger.

If not, loosen the two screws and adjust the position of the solenoid.

Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{2.0 \text{ kgf}\cdot\text{cm}\}$

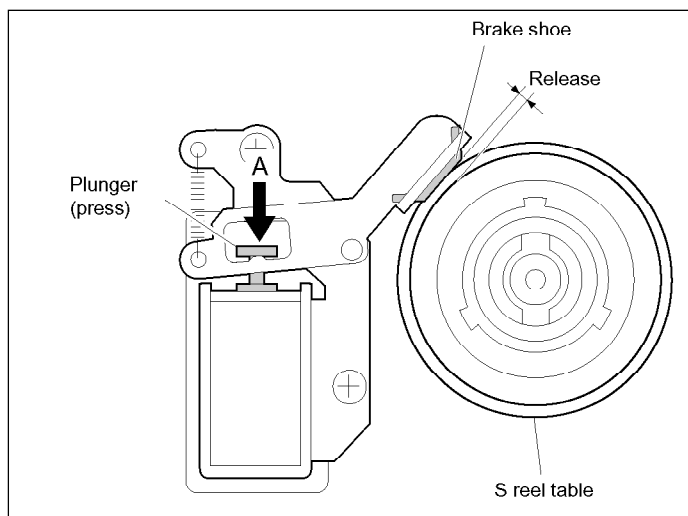
- (2) Reattach the S brake assembly on the mechanical deck with the two screws.

Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{2.0 \text{ kgf}\cdot\text{cm}\}$



4. Operation check

Check that the brake shoe is released from the S reel table when the plunger of the brake solenoid is pushed in the energized direction (arrow A).



5-12. Capstan Motor Replacement

Outline

Replacement

VH cleaner assembly removal
 Timing belt removal
 T drawer sub assembly removal
 Capstan motor removal
 Capstan motor installation
 T drawer sub assembly reinstallation
 Timing belt reinstallation
 VH cleaner assembly reinstallation
 Cleaning

Adjustment after replacement

CAPSTAN FG DUTY adjustment
 CAPSTAN FRICTION adjustment
 CAPSTAN FREE SPEED adjustment
 Tape running adjustment
 Video tracking check

Precaution

Remove the mechanical deck assembly from the unit when replacing the capstan motor. Be careful not to damage the video heads, drum, and other parts during removal.

Preparations

1. Turn off the power.
2. Remove the mechanical deck assembly. (Refer to Section 5-1-6.)

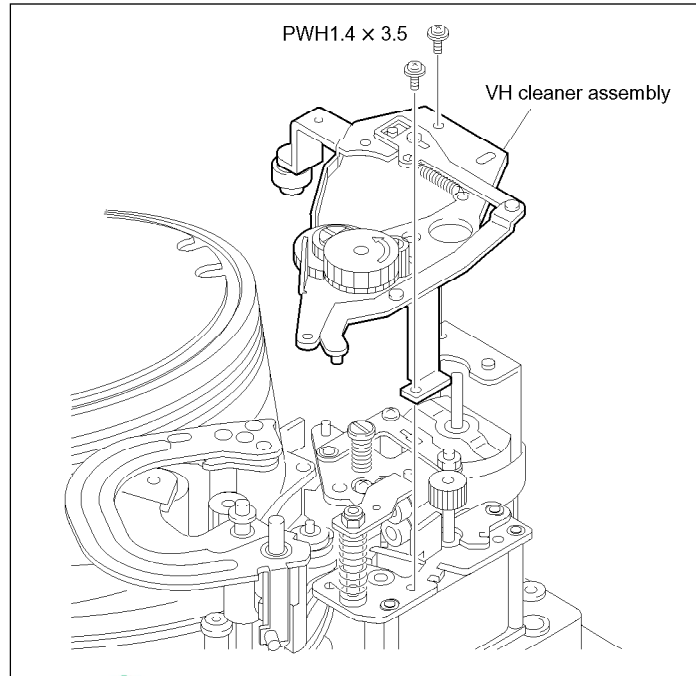
Tools

- Hexagon bit (Across flat has 1.5 mm) : J-6326-120-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

Removal

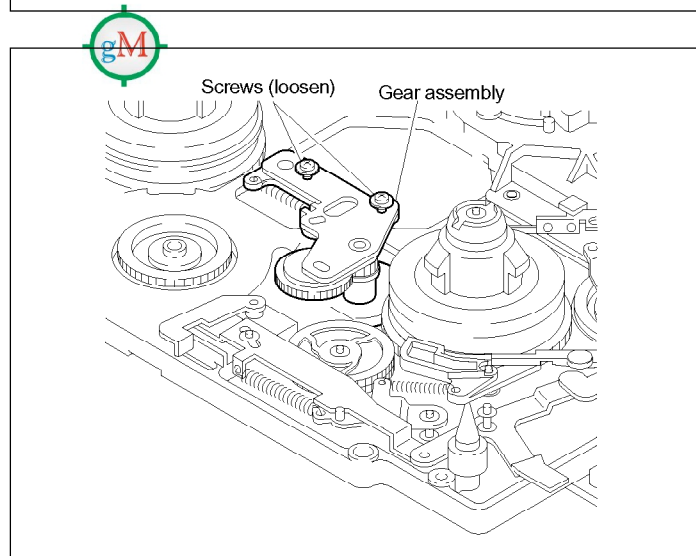
1. VH cleaner assembly removal

Remove the two screws to remove the VH cleaner assembly.



2. Timing belt removal

- (1) Loosen the two screws shown in the figure of the gear assembly by one half to one turn.



- (2) Remove the timing belt from the pulleys on the back of the mechanical deck.

Note

Be careful not to stretch or bend the removed timing belt.

3. T drawer sub assembly removal

Remove the T drawer sub assembly.
(Refer to Section 5-7.)

4. Capstan motor removal

- (1) Disconnect the harness connected to the board of the capstan motor. Be careful not to lose the harness because it is used again.
- (2) Remove the three screws at the top of the mechanical deck while holding the capstan motor from the back side of the mechanical deck assembly by hand.
- (3) Remove the capstan motor from the back of the mechanical deck assembly.

Installation

5. Capstan motor installation

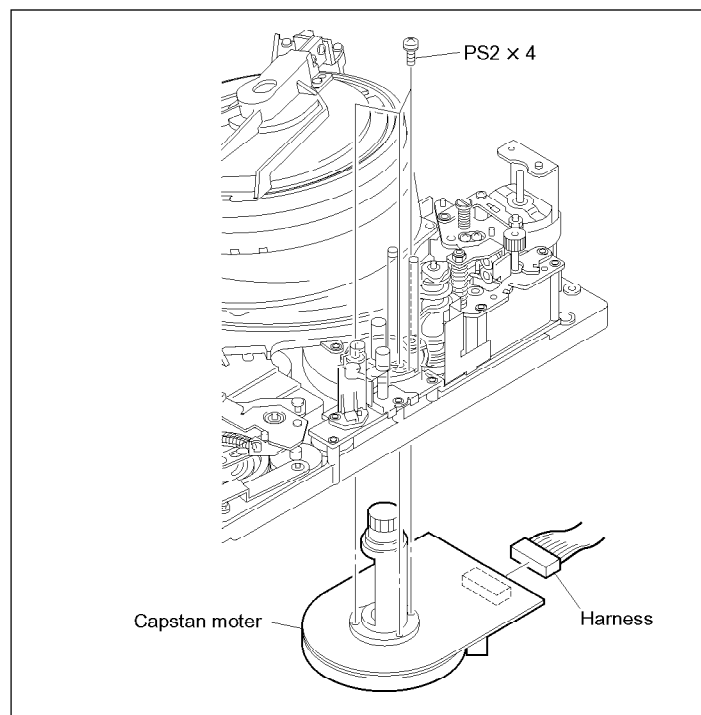
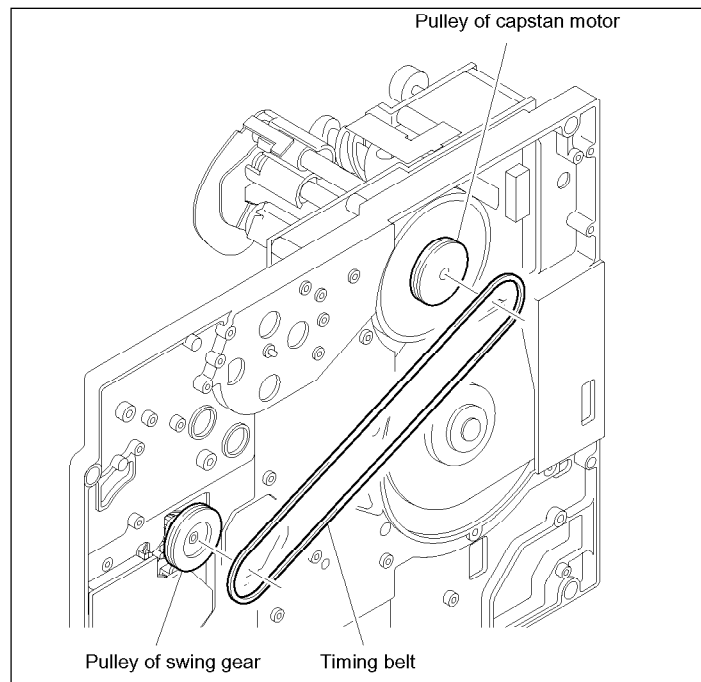
- (1) Slide a new capstan motor into the hole of the mechanical deck assembly in the direction indicated by the figure, and then fix it with the three screws.

Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{ 2.0 \text{ kgf}\cdot\text{cm} \}$

Note

Be careful not to damage the capstan shaft when sliding the new capstan motor into the hole of the mechanical deck assembly.

- (2) Connect the harness to the board of the capstan motor.



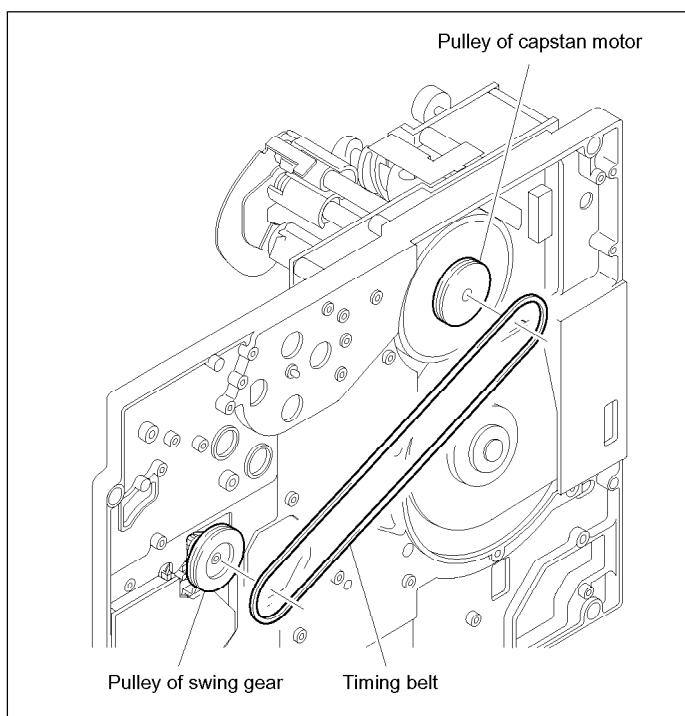
6. T drawer sub assembly reinstallation

Reattach the T drawer sub assembly.

(Refer to Section 5-7.)

7. Timing belt reinstallation

- (1) Clean the pulleys of the swing gear and capstan motor with a cleaning cloth moistened with a cleaning fluid.
- (2) Loop the timing belt removed in procedure 2 over the pulley of the swing gear .
- (3) Loop the other end of the timing belt over the pulley of the capstan motor.

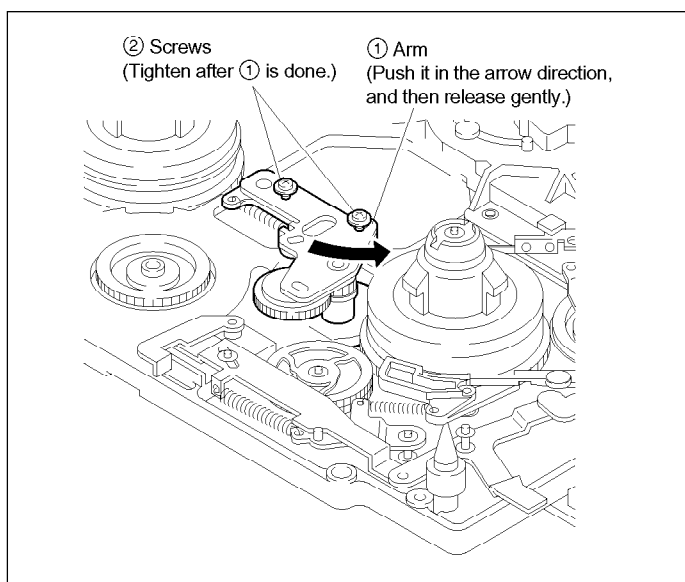


- (4) Move the arm of the gear assembly in the direction indicated by the arrow with finger, and then release it gently. The arm of the gear assembly slightly returns in the clockwise direction by spring force.
- (5) Tighten the two screws loosened in step (1) of procedure 2. At that time, do not hold the arm of the gear assembly with fingers.

Reference

The tension of the timing belt is adjusted by performing steps (4) and (5).

- (6) Apply locking compound to the screws after tightened in step (5). When applying, avoid the slot of the screw.

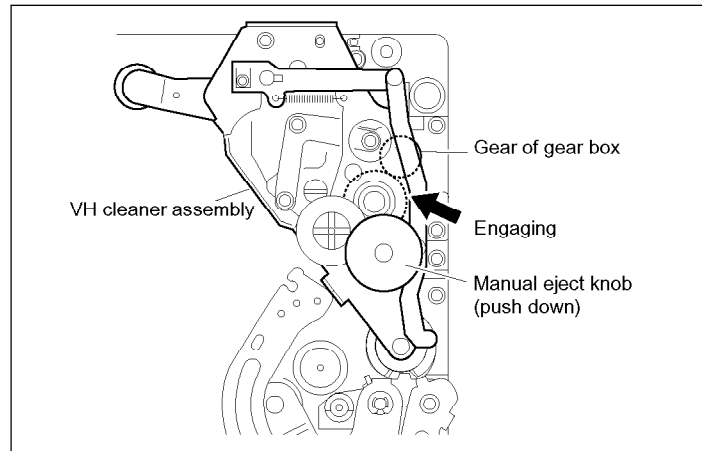


8. VH cleaner assembly reinstallation

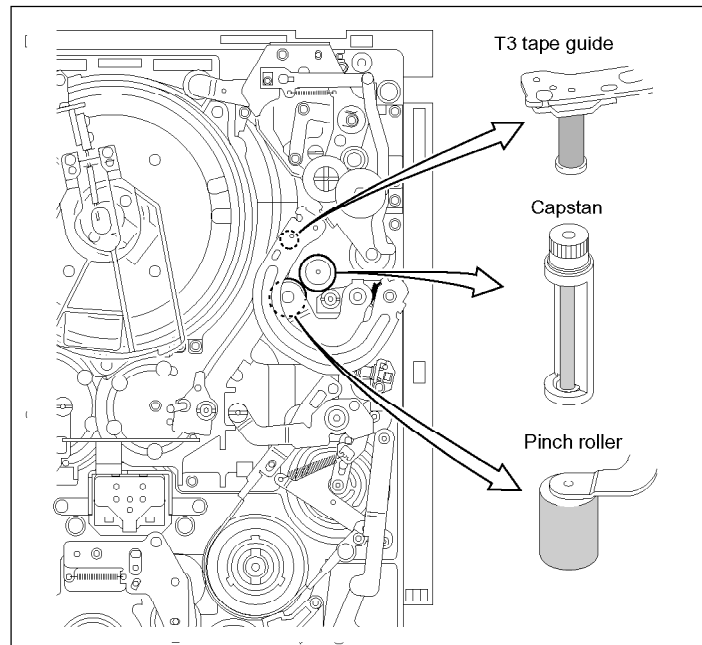
- (1) Reattach the VH cleaner assembly with the two screws.

Tightening torque : $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$

- (2) Check to see that the gear of the VH cleaner assembly is engaged with the gear of the gear box when pushing down the manual eject knob.

**9. Cleaning**

Clean the surfaces of the capstan motor's shaft, T3 guide, and pinch roller with a cleaning cloth moistened with a cleaning fluid.

**Adjustment after replacement****10. CAPSTAN FG DUTY adjustment**

(Refer to Section 3-2-6.)

(A002 : CAPSTAN FG DUTY)

11. CAPSTAN FRICTION adjustment

(Refer to Section 3-2-6.)

(A003 : CAPSTAN FRICTION)

12. CAPSTAN FREE SPEED adjustment

(Refer to Section 3-2-6.)

(A004 : CAPSTAN FREE SPEED)

13. Tape running adjustment

(Refer to Section 7-4.)

14. Video tracking check

(Refer to Section 7-5.)

5-13. S Reel Motor Replacement

Outline

Replacement

S reel motor removal

S reel motor installation

Adjustment after replacement

S REEL FG DUTY adjustment

Tape running adjustment

Precaution

Remove the mechanical deck assembly from the unit when replacing the S reel motor. Be careful not to damage the video heads, drum, and other parts during removal.

Preparations

1. Turn off the power.
2. Remove the mechanical deck. (Refer to Section 5-1-6.)

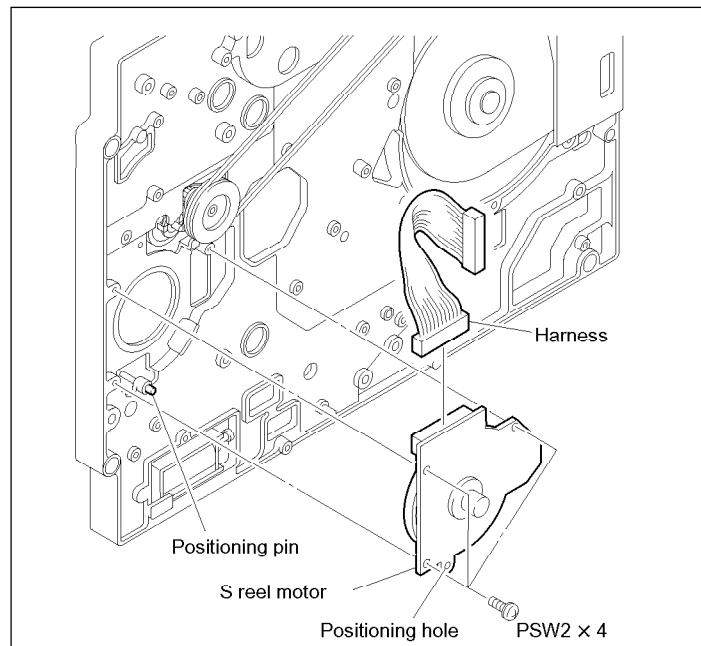
Tools

- Hexagon bit (Across flat has 1.5 mm) : J-6326-120-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A

Removal

1. S reel motor removal

- (1) Remove the three screws to remove the S reel motor.
- (2) Disconnect the harness from the board of the S reel motor. Be careful not to lose the harness because it is used again.



Installation

2. S reel motor installation

- (1) Connect the harness removed in step (2) of procedure 1 to the board of a new S reel motor.
- (2) Align the positioning hole of the S reel motor's board with the positioning pin on the mechanical deck, and then secure it with the three screws.

Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
{2.0 kgf•cm}

Adjustment after replacement

3. S REEL FG DUTY adjustment

(Refer to Section 3-2-6.)

(A001 : S REEL DUTY)

4. Tape running adjustment

(Refer to Section 7-4.)

5-14. Tension Spring Replacement

Outline

Replacement

T drawer sub assembly removal
Tension spring removal
T drawer arm removal
Tension spring installation
T drawer sub assembly reinstallation

Adjustment after replacement

Operation check

Precautions

- When replacing the tension spring, do not stretch the tension spring.
Be sure to install the hook of the tension spring to the appointed direction. If the tension spring is stretched or the hook is installed in the incorrect direction, the life of the tension spring will be shortened.
- When replacing, be careful not to bend the T drawer arm and to slant the tape guide by applying the force to the T drawer arm and tape guide.
- The following new E ring is required when replacing the tension spring.
E ring : 7-624-105-04

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)

Tool

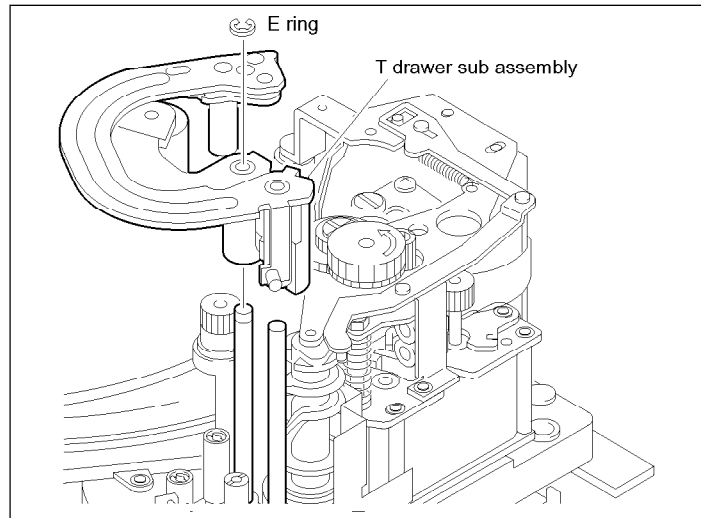
- Tweezers

Removal

1. T drawer sub assembly removal

Remove the E ring with tweezers to remove the T drawer sub assembly.

(Refer to Section 5-7, procedure 1.)

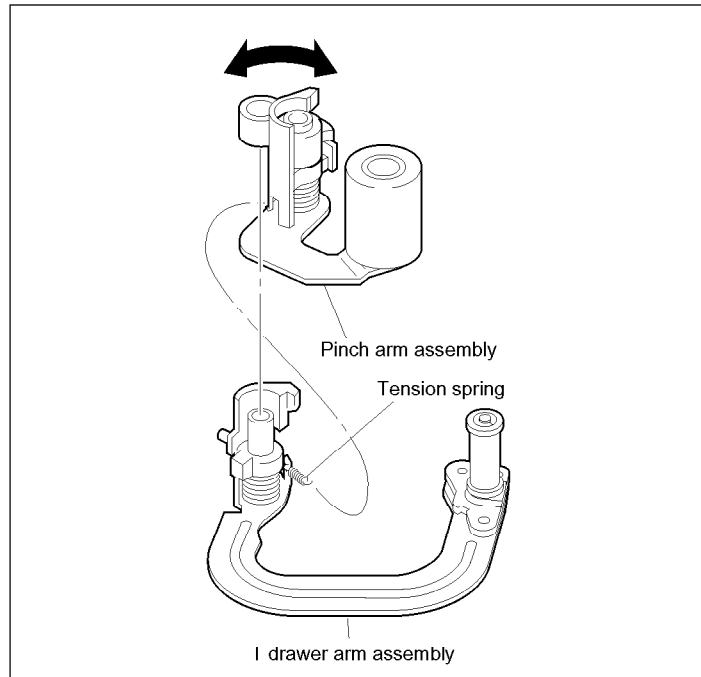


2. Tension spring removal

Move the pinch arm assembly in the arrow direction shown in the figure, and then remove the tension spring.

3. T drawer arm removal

Remove the T drawer arm from the T drawer sub assembly.



Installation

4. Tension spring installation

- (1) Hook a new tension spring to the notch of the T drawer arm assembly in the correct direction as shown in the figure 1.

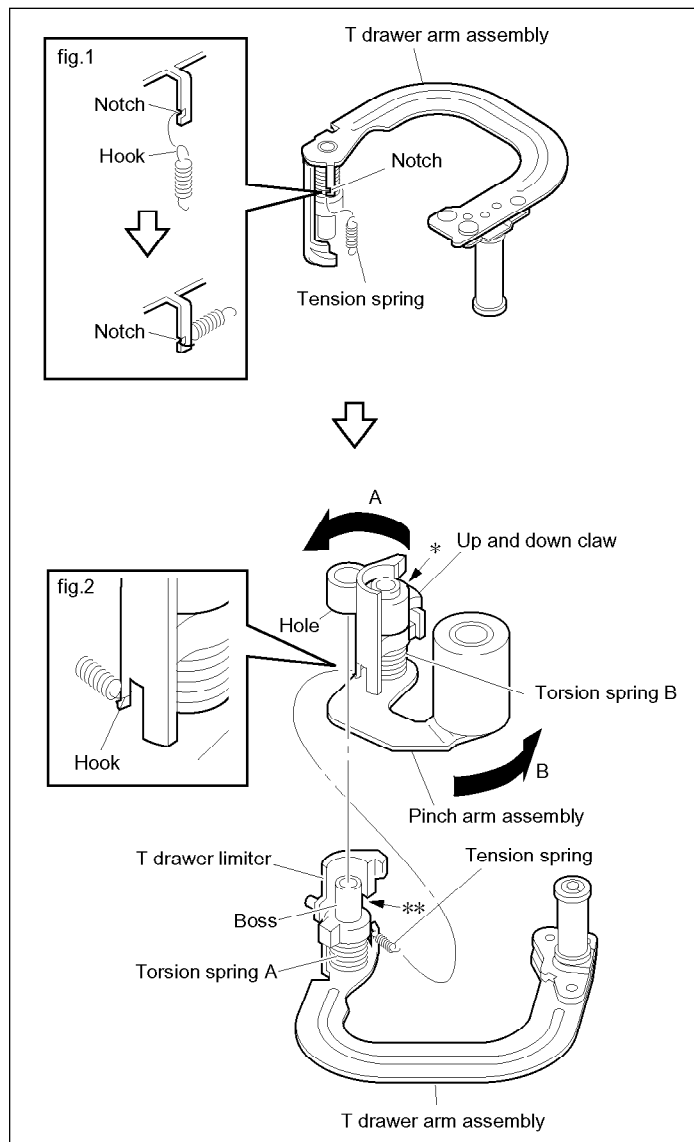
Note

Never install the hook of the tension spring in the incorrect direction.

- (2) Shift the up and down claw in the arrow A direction against the pinch arm assembly as shown in the figure.
- (3) Insert the boss of the T drawer arm assembly into the hole of the up and down claw as shown in the figure.
- (4) Check that the ** marked portion of the T drawer limiter is positioned to the * marked position of the up and down claw.
- (5) Shift the T drawer sub assembly in the arrow B direction, and pass the tension springs between the torsion springs A and B, and then install the hook of the tension spring as shown in the figure 2.

5. T drawer sub assembly reinstallation

Reattach the T drawer sub assembly onto the shaft of the chassis, and fasten it with a new E ring.
(Refer to Section 5-7, procedure 3.)



Adjustment after replacement

6. Operation check

- (1) Turn on the power.
- (2) Check that the threading and unthreading operation are smooth.

Section 6

Main Parts Replacement

6-1. Threading Motor Replacement

Outline

Replacement

VH cleaner assembly removal
AT head assembly removal
Threading motor assembly removal
Threading motor replacement
Threading motor assembly reinstallation
AT head assembly reinstallation
VH cleaner assembly reinstallation

Adjustment after replacement

AT head position adjustment

Precautions

- The threading motor can be replaced with the cassette compartment attached.
- The following new loading motor pulley is required when replacing the threading motor.
Loading motor pulley: 3-611-492-01

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)

Tools

- Torque screwdriver (3 kg•cm): J-6325-400-A
- Torque screwdriver's bit (for M1.4): J-6325-110-A
- Torque screwdriver's bit (for M2): J-6325-380-A

Replacement

1. VH cleaner assembly removal

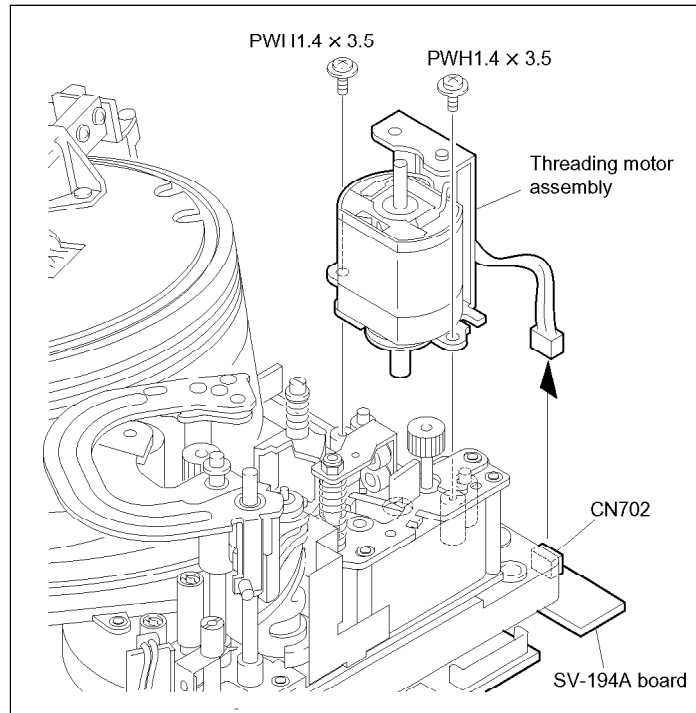
Remove the VH cleaner assembly. (Refer to Section 5-6.)

2. AT head assembly removal

Remove the AT head assembly. (Refer to Section 6-14.)

3. Threading motor assembly removal

- (1) Disconnect the harness connector from the connector CN702 on the SV-194A board.
- (2) Remove the two screws to remove the threading motor assembly.
Leave the timing belt on the mechanical deck.

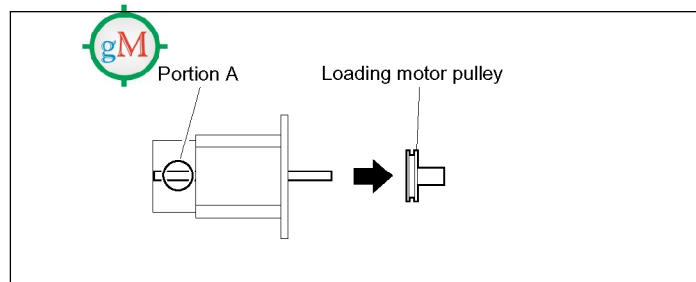


4. Threading motor replacement

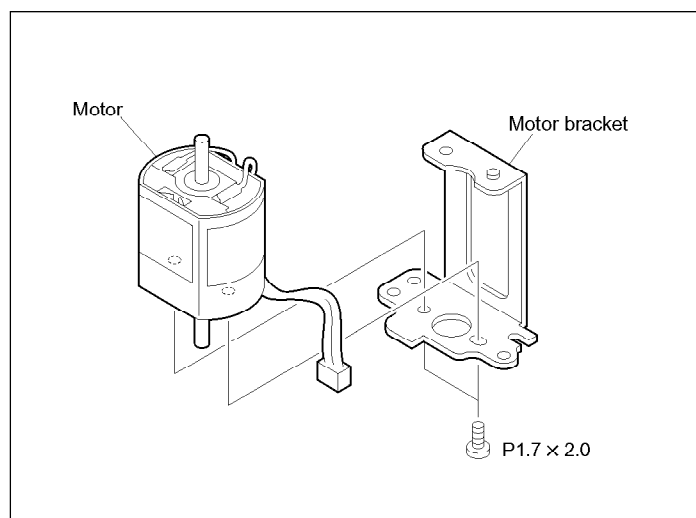
- (1) While holding the A portion of the motor shaft with nippers, remove the loading motor pulley from the motor shaft.

Note

During this process, take much care not to press the motor shaft against the motor.



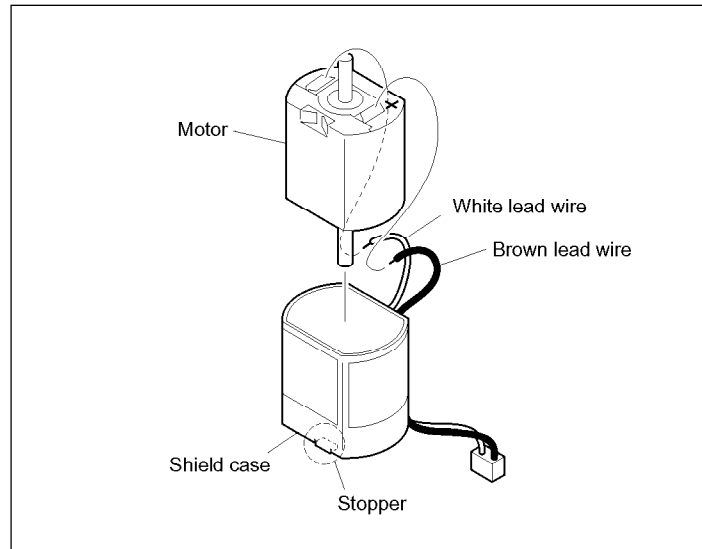
- (2) Remove the two screws to remove the motor from the motor bracket.



- (3) Unsolder the two wires of the motor, and then remove the motor from the shield case.
- (4) Unsolder the two wires of a new motor, and then slide in a new motor into the shield case in the direction shown in the figure.
- (5) Solder the wires unsoldered in step (3) to the new motor.

Note

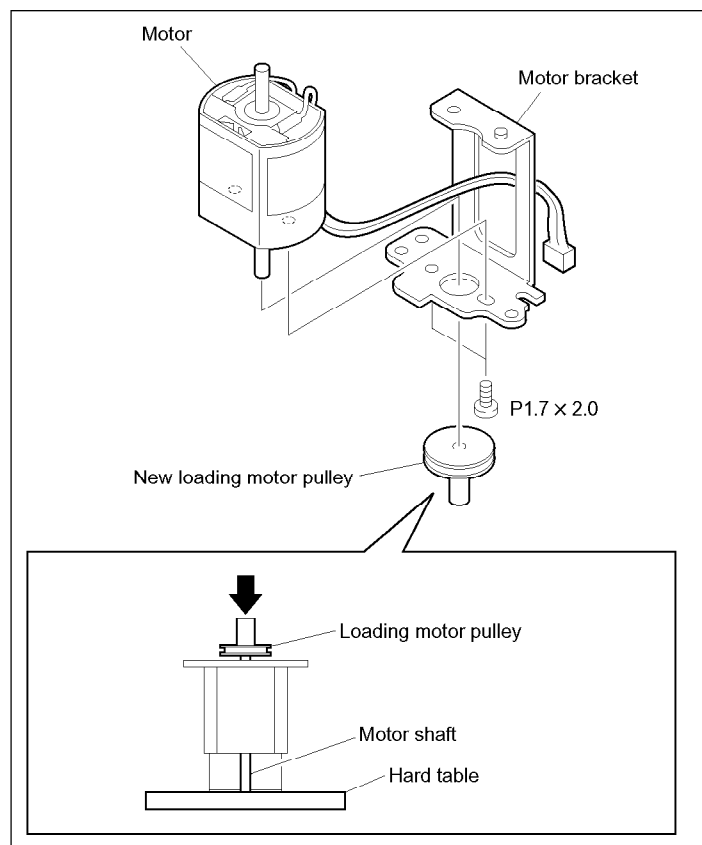
Be sure to solder the brown lead wire to the (+) terminal.



- (6) Attach the motor to the motor bracket with the two screws.
Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{2.0 \text{ kgf}\cdot\text{cm}\}$
- (7) Slide a new loading motor pulley onto the motor shaft, and then push it as far as it will go.

Note

Be sure to put the other end of the motor shaft on a hard table when pressing as shown in the figure.



5. Threading motor assembly reinstallation

- (1) Put the threading motor assembly onto the mechanical deck with the two screws while looping the timing belt over the pulley of the threading motor assembly.
- (2) Turn the threading motor assembly in the direction indicated by the arrow, and then fasten it with the two screws.
- (3) Connect the harness of the threading motor to CN702 on the SV-194A board.

6. AT head assembly reinstallation

Reattach the AT head assembly.
(Refer to Section 6-14.)

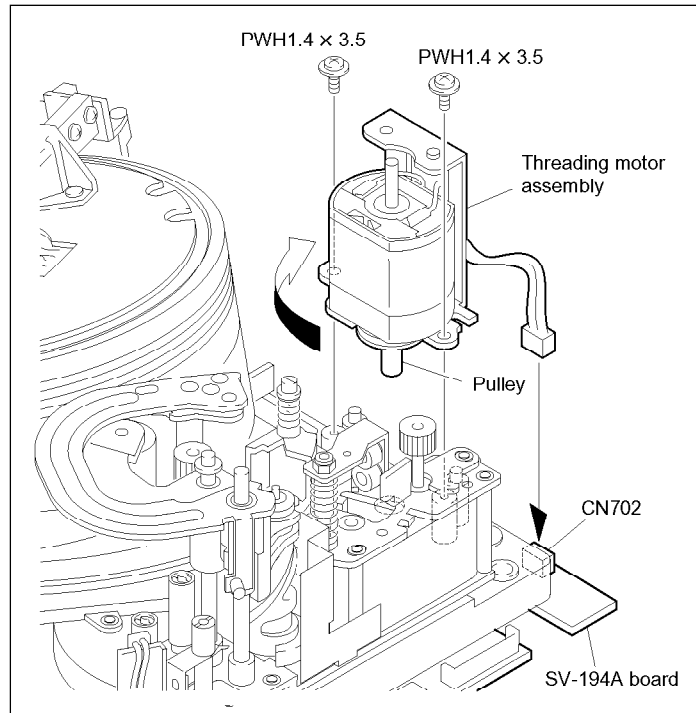
7. VH cleaner assembly reinstallation

Reattach the VH cleaner assembly.
(Refer to Section 5-6.)

Adjustment after replacement

8. AT head position adjustment

(Refer to Section 7-8.)



6-2. GB Gear Assemblies Replacement

Outline

Replacement

VH cleaner assembly removal
 AT head assembly removal
 Plate (2) removal
 Gear box housing removal
 GB (2) gear assembly removal
 GB (1) gear assembly replacement
 GB (3) gear assembly replacement
 Gear box housing reinstallation
 GB (2) gear assembly installation
 Plate (2) reinstallation
 ME gear reinstallation
 Timing belt reinstallation check
 AT head assembly reinstallation
 VH cleaner assembly reinstallation

Adjustment after replacement

AT head position adjustment

Precaution

Bearings are provided at the tip of each gear assembly. Be careful not to lose them during removal and installation.

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Grease (PG-662) : 7-651-000-59
- Tweezers

Replacement

1. VH cleaner assembly removal

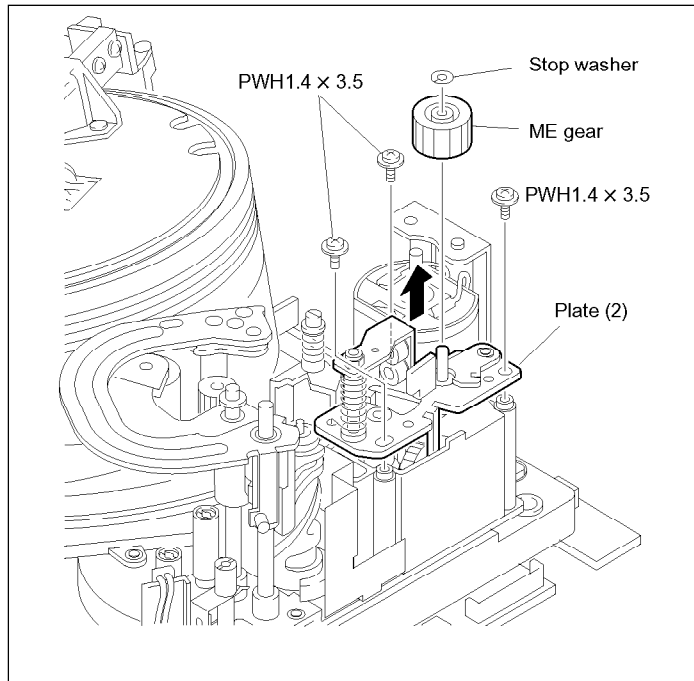
Remove the VH cleaner assembly. (Refer to Section 5-6.)

2. AT head assembly removal

Remove the AT head assembly. (Refer to Section 6-14.)

3. Plate (2) removal

- (1) Remove the stop washer to remove the ME gear.
- (2) Remove the three screws, and then remove the plate (2) in the direction indicated by the arrow.

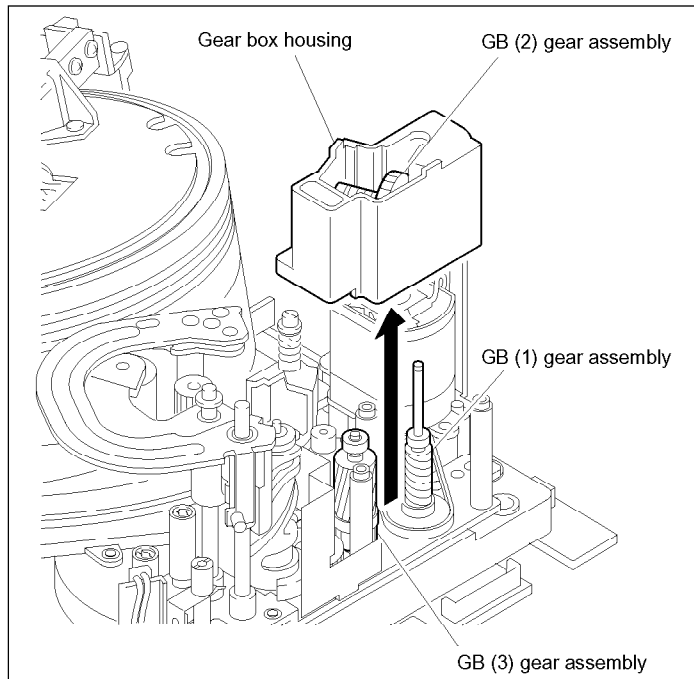


4. Gear box housing removal

Lift the gear box housing out.

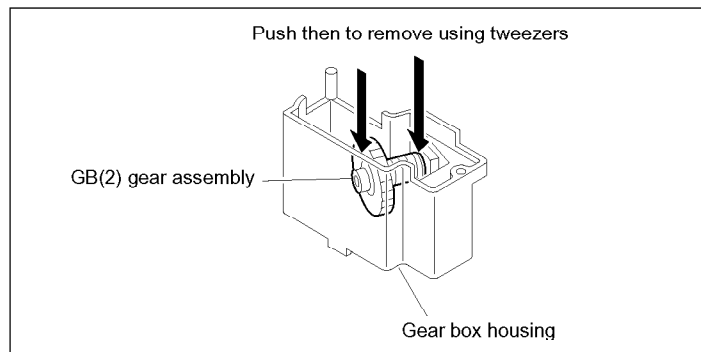
Notes

- At that time, the GB (2) gear assembly in the housing is removed together. The GB (1) gear assembly and GB (3) gear assembly are left on the mechanical deck.
- Bearings are provided at the tip of each gear shaft. Be careful not to lose them.



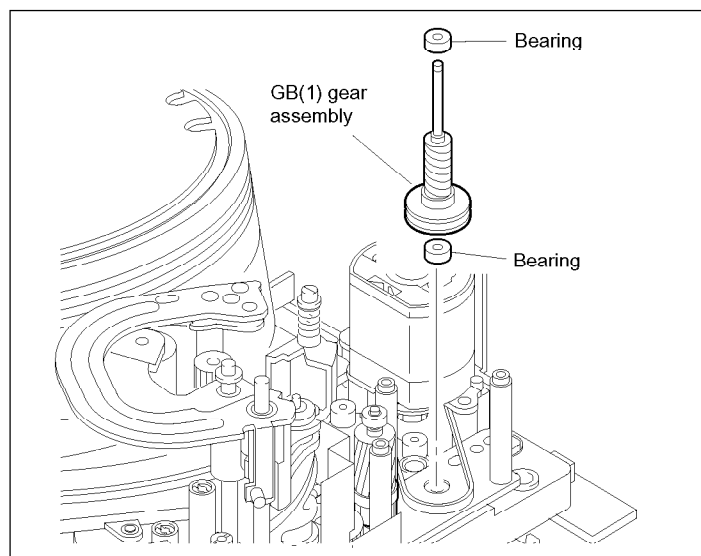
5. GB (2) gear assembly removal

- (1) Push both ends of the GB (2) gear assembly from the back of the gear box housing using tweezers, and then remove it.
- (2) Remove the bearings from the shafts on both ends of the removed GB (2) gear assembly.



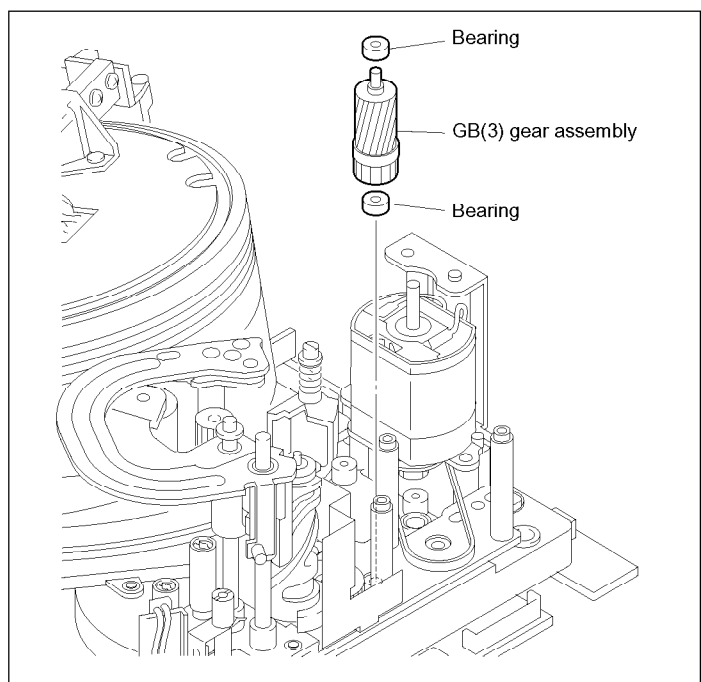
6. GB (1) gear assembly replacement

- (1) Remove the bearings from the shafts at both ends of the GB (1) gear assembly.
- (2) Clean the shafts at both ends of a new GB (1) gear assembly with a dry cloth.
- (3) Reattach bearings onto the shafts at both ends of the GB (1) gear assembly.



7. GB (3) gear assembly replacement

- (1) Remove the bearings from the shafts at both ends of the GB (3) gear assembly.
- (2) Clean the shafts at both ends of a new GB (3) gear assembly with a dry cloth.
- (3) Reattach bearings onto the shafts at both ends of the GB (3) gear assembly.



8. Gear box housing reinstallation

- (1) Loop the timing belt over the pulley of the GB (1) gear assembly, and insert the GB (1) gear assembly onto the hole on the mechanical deck and put up the gear assembly.
- (2) Insert the bearing of the GB (3) gear assembly onto the hole shown in the figure and put up the gear assembly.

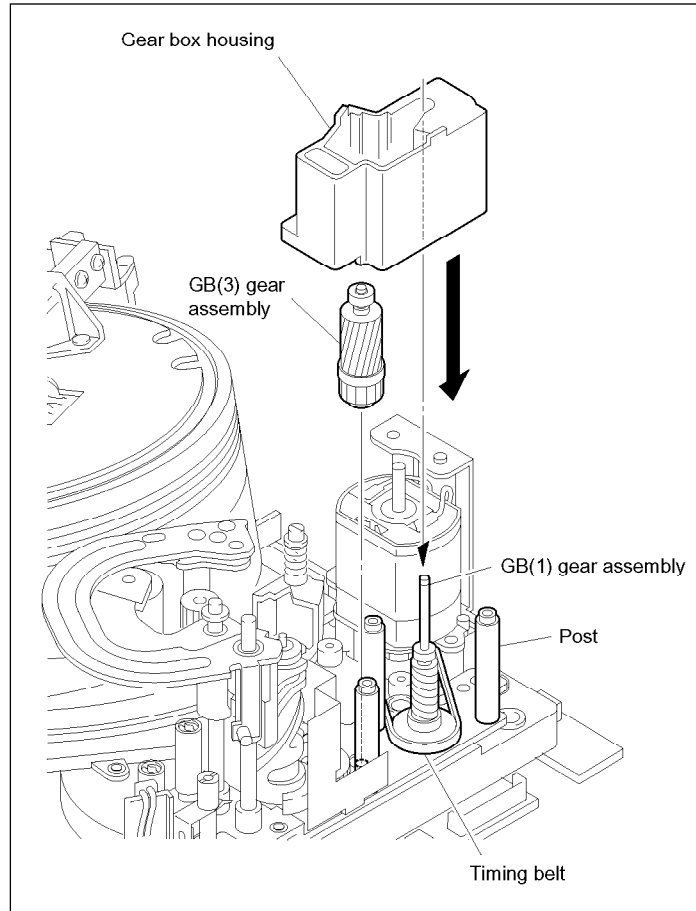
Note

Be careful not to lose the bearing during installation.

- (3) Put the gear box housing among the three posts on the mechanical deck as shown in the figure, and push the gear box housing toward the mechanical deck as far as it will go.

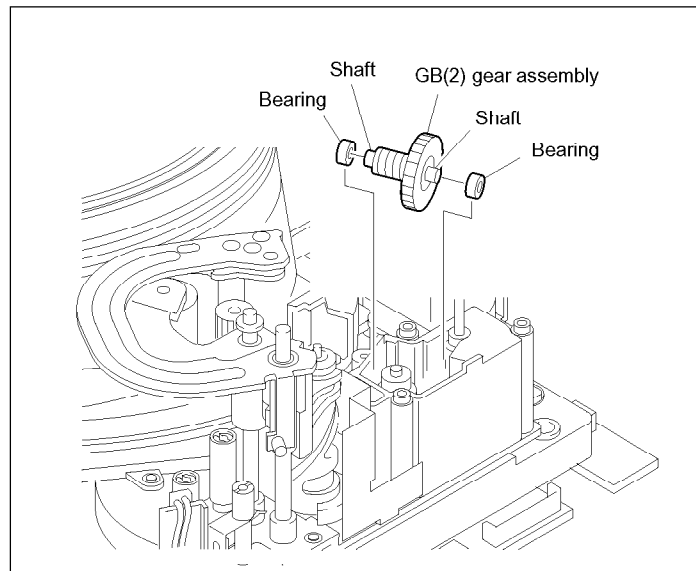
Note

Be careful not to pinch the timing belt between the gear box housing and mechanical deck.



9. GB (2) gear assembly installation

- (1) Clean the shafts at both ends of the GB (2) gear assembly with a dry cloth.
- (2) Insert the bearings into the shafts at both ends of the GB (2) gear assembly.
- (3) Apply grease thinly to the whole gear circumference of the GB (2) gear assembly.
- (4) Insert the GB (2) gear assembly from the top of the gear box housing in the direction shown in the figure, and then push both ends of the assembly using tweezers to attach it securely.



10. Plate (2) reinstallation

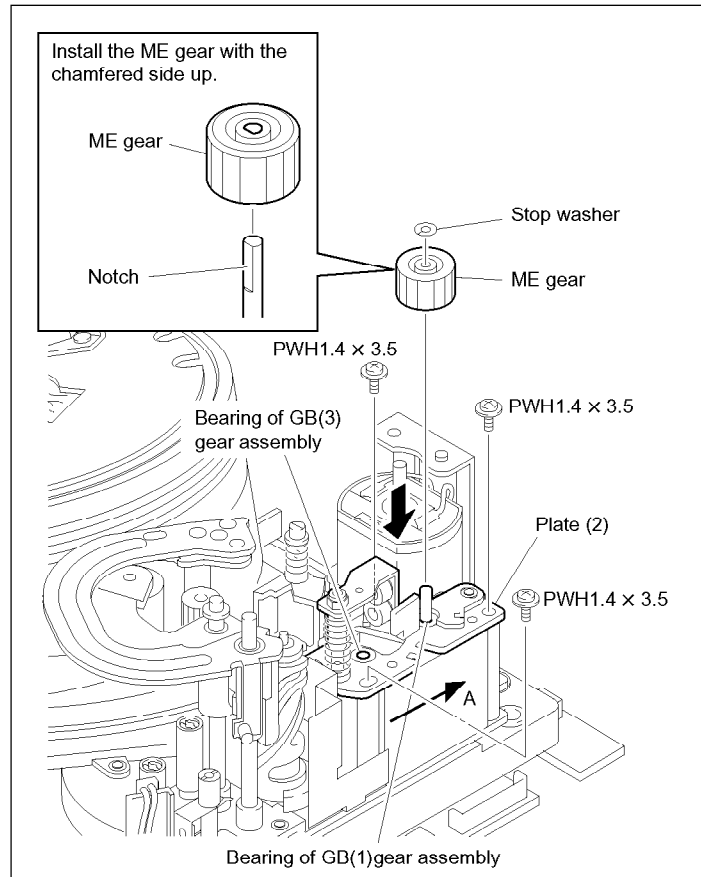
- (1) Reattach the plate (2) into the gear box housing, and then check that the bearing at the tips of the GB (3) gear assembly and GB (1) gear assembly are firmly put into the dented hole of plate (2).
- (2) While pushing the plate (2) in the arrow A direction, fasten the plate (2) with the three screws.

11. ME gear reinstallation

Secure the ME gear with a new stop washer.

Note

Align the notch at the tip of the shaft with the hole of the ME gear when the ME gear is reattached.

**12. Timing belt reinstallation check**

Turn the ME gear to check that the timing belt is looped over the pulley of the threading motor. If the timing belt is off, remove the threading motor assembly from the mechanical deck once, and then loop the timing belt over the pulley.

13. AT head assembly reinstallation

Reattach the AT head assembly.

(Refer to Section 6-14.)

14. VH cleaner assembly reinstallation

Reattach the VH cleaner assembly.

(Refer to Section 5-6.)

Adjustment after replacement**15. AT head position adjustment**

(Refer to Section 7-8).

6-3. Full Erase Head Replacement

Outline

Replacement

CTL/FE head assembly removal
Full erase head removal
Full erase head replacement
CTL/FE head assembly reinstallation
CTL/FE head assembly cleaning

Adjustment after replacement

Tape running adjustment

CAUTION

Never contact the tape cleaner at the entrance head block with bare hands. The tape cleaner has a sharp edge. Pay careful attention to it when the full erase head is replaced or adjusted.

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver's bit (for M2) : J-6325-380-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

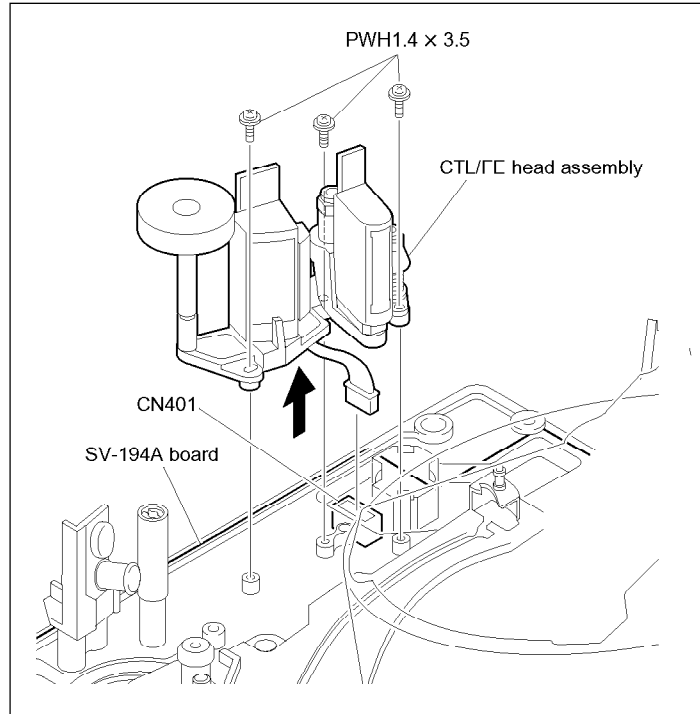
Replacement

1. CTL/FE head assembly removal

- (1) Remove the three screws from the CTL/FE head assembly.
- (2) Disconnect the harness connector from the connector CN401 on the SV-194A board to remove the CTL/FE head assembly.

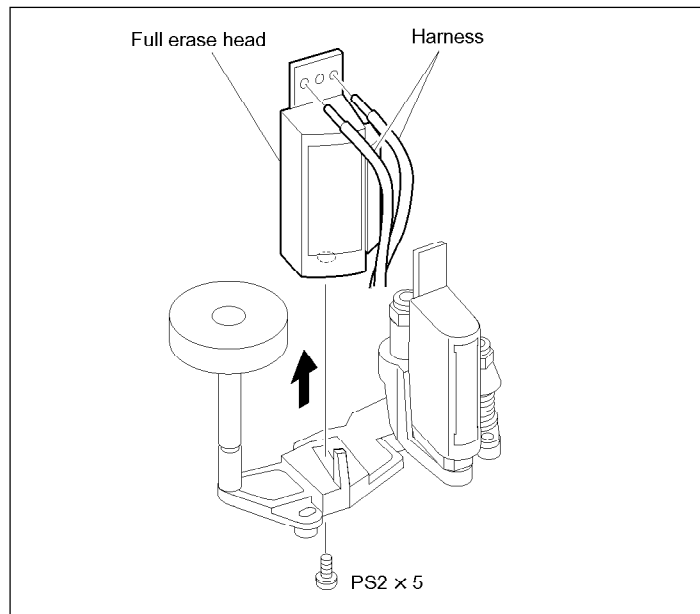
Note

Be careful not to damage the video heads, drum, tape guide and other parts with a screwdriver.



2. Full erase head removal

- (1) Unsolder the two wires soldered to the full erase head.
- (2) Remove the one screw from the back side of the CTL/FE head assembly to remove the full erase head.



3. Full erase head replacement

CAUTION

The full erase head is equipped with the tape cleaner which has a sharp edge. Do not contact it with bare hands. Pay careful attention to it when handling.

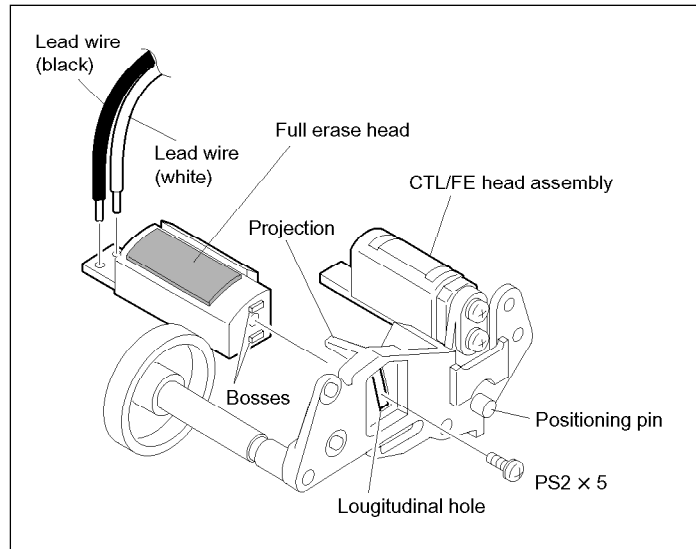
- (1) Put the two bosses of a new full erase head into the longitudinal hole of the CTL/FE head assembly, and then fasten it with the one screw. At that time, tighten the screw while pushing the head surface toward the projection.

Tightening torque : $20 \times 10^{-2} \text{ N} \cdot \text{m}$
 $\{2.0 \text{ kgf} \cdot \text{cm}\}$

- (2) Solder the two wires to the printed circuit board of the full erase head.

Note

Be sure to solder the wires in the correct positions.



4. CTL/FE head assembly reinstallation

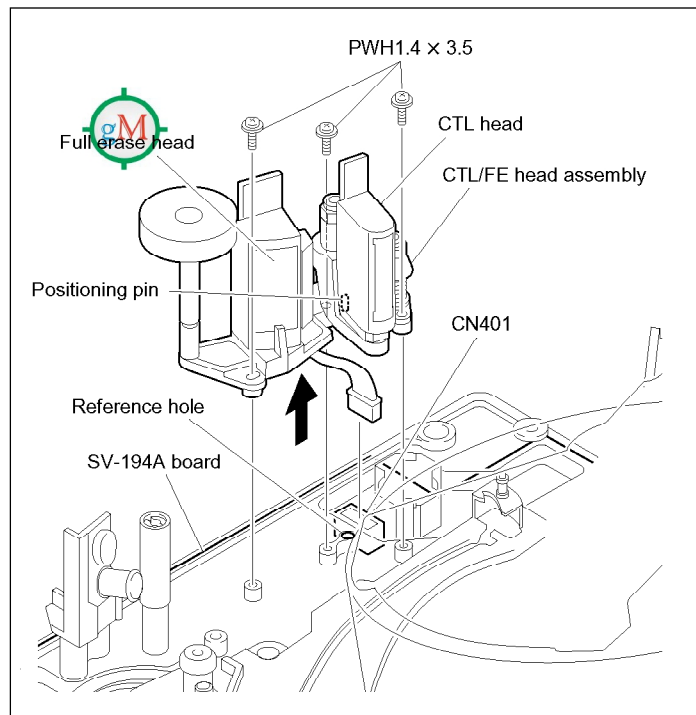
- (1) Insert the positioning pin of the CTL/FE head assembly onto the reference hole of the mechanical deck, and then secure it with the three screws.
- (2) Reconnect the harness of the CTL/FE head assembly to the connector CN401 on the SV-194A board.

5. CTL/FE head assembly cleaning

Wipe the CTL head, full erase head, tape cleaner and tape guide with a cleaning cloth moistened with a cleaning fluid.

Note

After cleaning, be sure to wipe them with a dry cloth.



Adjustment after replacement

6. Tape running adjustment

(Refer to Section 7-4.)

6-4. S Brake Solenoid Replacement

Outline

Replacement

SV-194A board removal
Cassette compartment removal
S brake assembly removal
Brake solenoid replacement
S brake assembly reinstallation
Solenoid operation check
Cassette compartment reinstallation
SV-194A board reinstallation

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.

Tools

- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver's bit (for M2) : J-6325-380-A
- Hexagon bit (for torque driver) : J-6326-120-A

Replacement

1. SV-194A board removal

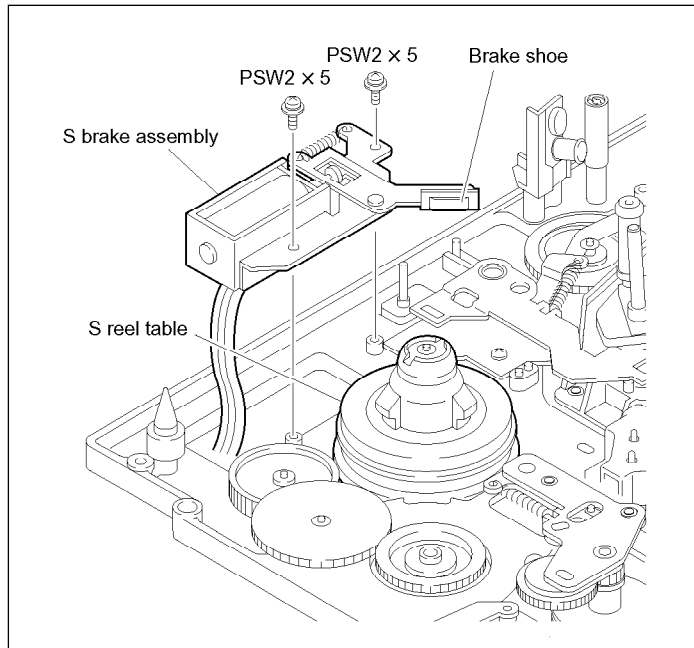
Remove the SV-194A board. (Refer to Section 6-17-1.)

2. Cassette compartment removal

Remove the cassette compartment. (Refer to Section 1-5.)

3. S brake assembly removal

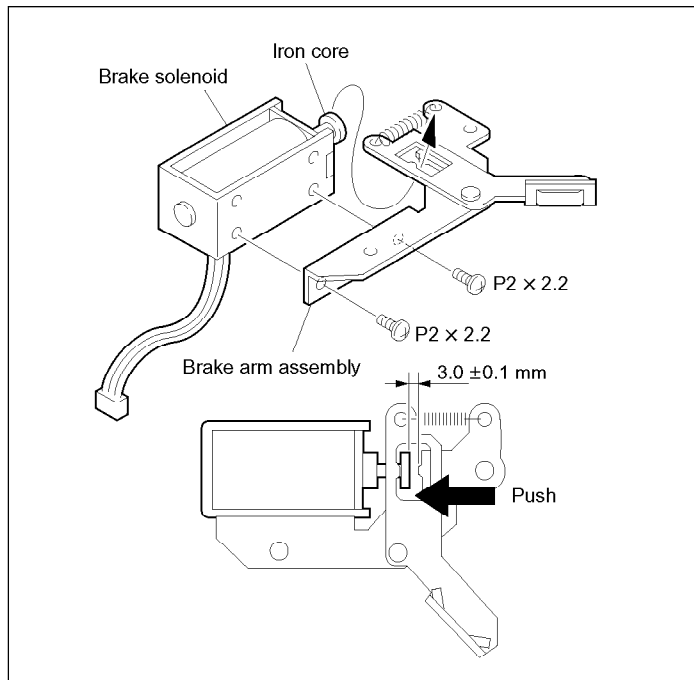
Remove the two screws, and then remove the S brake assembly while releasing the brake shoe from the S reel table.



4. Brake solenoid replacement

- (1) Remove the two screws shown in the figure to remove the brake solenoid.
- (2) Insert the iron core tip of a new brake solenoid into the hole of the brake arm assembly in the direction shown in the figure. And then, loosely tighten the two screws which is applied the locking compound onto its thread and fix a new brake solenoid to the brake arm assembly.
- (3) To position the brake solenoid so that the clearance between the tip of iron core and the protrusion of brake arm assembly is 3.0 ± 0.1 mm, press in the iron core in the direction of the arrow by a finger and retighten the two screws.

Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{2.0 \text{ kgf}\cdot\text{cm}\}$

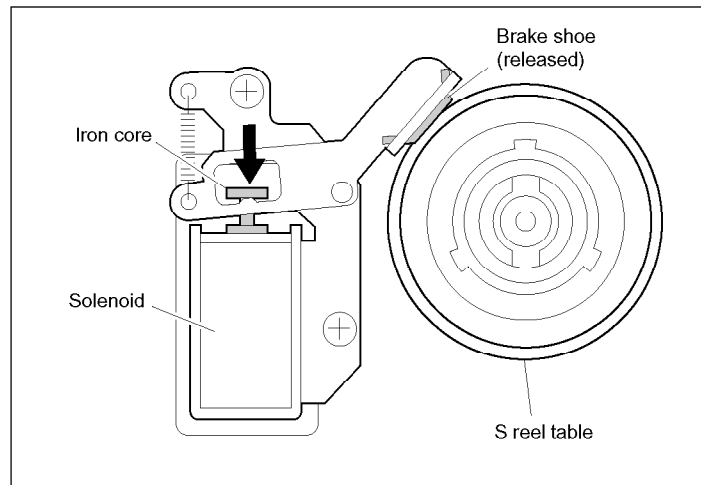


5. S brake assembly reinstallation

- (1) Pass the harness of the S brake assembly through the square hole of the mechanical deck.
- (2) Reattach the S brake assembly on the mechanical deck with the two screws.

6. Solenoid operation check

- (1) Check that the brake is applied when the S reel table is manually turned in the clockwise direction.
- (2) Press in the iron core of the solenoid in the energized direction with a finger, check that the brake shoe is released from the S reel table and that the S reel table can smoothly rotate in the clockwise direction by hand.

**7. Cassette compartment reinstallation**

Reattach the cassette compartment.

(Refer to Section 1-5.)

8. SV-194A board reinstallation

Reattach the SV-194A board.

(Refer to Section 6-17-1.)

6-5. S/T Slider and S/T Threading Gear Replacement

Outline

Replacement

VH cleaner assembly removal
T drawer sub assembly removal
Drum assembly removal
T tension regulator arm removal
Tension regulator band removal
S tension regulator arm removal
S and T catchers removal
Protector removal
Threading link assembly removal
Slider removal
Threading gear assembly removal
Cleaning and lubrication
Threading gear assembly installation
Slider installation
Threading link assembly installation
Protector reinstallation
S and T catchers reinstallation
Tension regulator band reinstallation
T tension regulator arm reinstallation
S tension regulator arm reinstallation
Drum assembly reinstallation
T drawer sub assembly reinstallation
VH cleaner assembly reinstallation

Adjustment after replacement

Tape running adjustment
Video tracking adjustment
CTL head position adjustment
AT head position adjustment

Precautions

- The following new stop washers and E rings are required when replacing the S/T threading link.
E ring (2.3) (for T drawer sub assembly) : 7-624-105-04 × 1
E ring (1.2) (for S/T slider) : 7-624-101-04 × 2
Stop washer (for tension regulator band) : 3-559-408-11 × 2
(for T tension regulator arm)
- The two parallel pins (d = 2.0 mm) and a parallel pin (d = 1.6 mm) of tool are required for gear phase adjustment.

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- | | |
|---|--------------|
| • Stop washer fastening tool : | J-6323-530-A |
| • Torque screwdriver (3 kg•cm) : | J-6325-400-A |
| • Torque screwdriver's bit (for M1.4) : | J-6325-110-A |
| • Torque screwdriver's bit (for M2) : | J-6325-380-A |
| • Parallel pin (d = 1.6 mm) : | 3-649-266-01 |
| • Parallel pin (d = 2.0 mm) : | 3-703-358-04 |
| • Oil : | 7-661-018-18 |
| • Cleaning cloth (15 cm × 15 cm) : | 3-184-527-01 |
| • Cleaning liquid : | 9-919-573-01 |
| • Grease (PG-662) : | 7-651-000-59 |

Replacement

1. VH cleaner assembly removal

Remove the VH cleaner assembly.
(Refer to Section 5-6.)

2. T drawer sub assembly removal

Remove the T drawer sub assembly.
(Refer to Section 5-7.)

3. Drum assembly removal

Remove the drum assembly.
(Refer to Section 5-5.)

4. T tension regulator arm removal

Remove the T tension regulator arm.
(Refer to Section 5-9.)

5. Tension regulator band removal

Remove the tension regulator band.
(Refer to Section 5-9.)

6. S tension regulator arm removal

Remove the S tension regulator arm.
(Refer to Section 6-9.)

7. S and T catchers removal

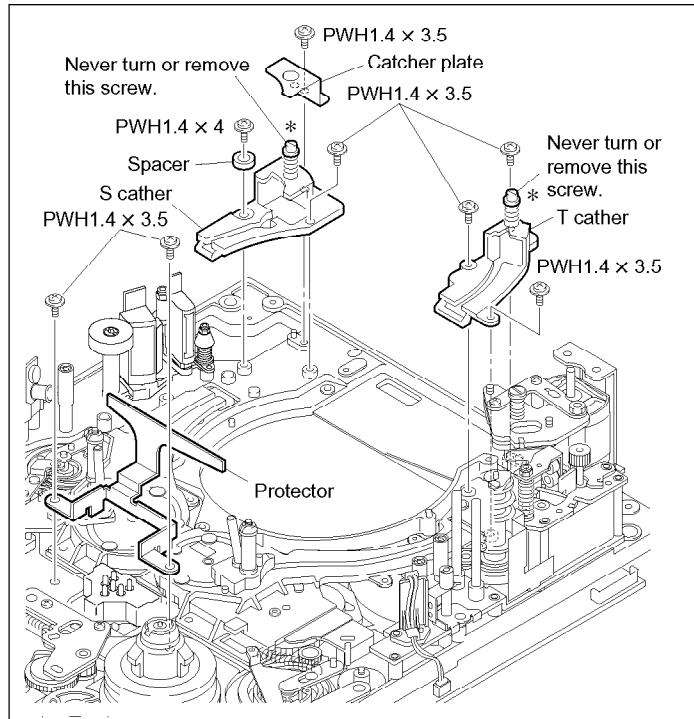
Remove the three screws respectively, and then remove the S catcher, catcher plate, and T catcher.

Note

Never turn or remove the * marked screws shown in the figure.

8. Protector removal

Remove the two screws, and remove the protector.

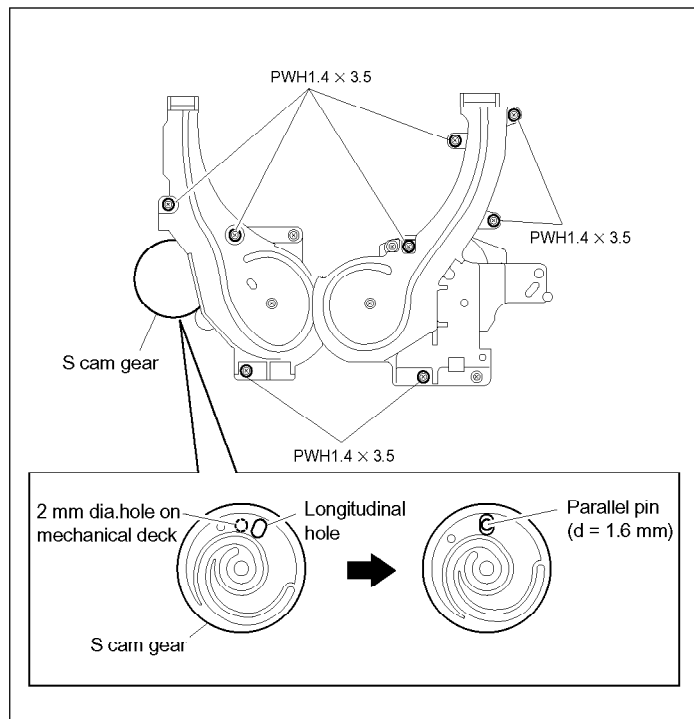


9. Threading link assembly removal

- (1) Turn the S cam gear with a finger to align the longitudinal hole of the S cam gear with the reference hole (2.0 mm) on the mechanical deck as shown in the figure. And then insert the parallel pin (d = 2.0 mm) into these holes.
- (2) Remove the eight screws shown in the figure.
- (3) Remove the threading link assembly.

Note

Being careful not to damage the stationary heads, remove the threading link assembly.

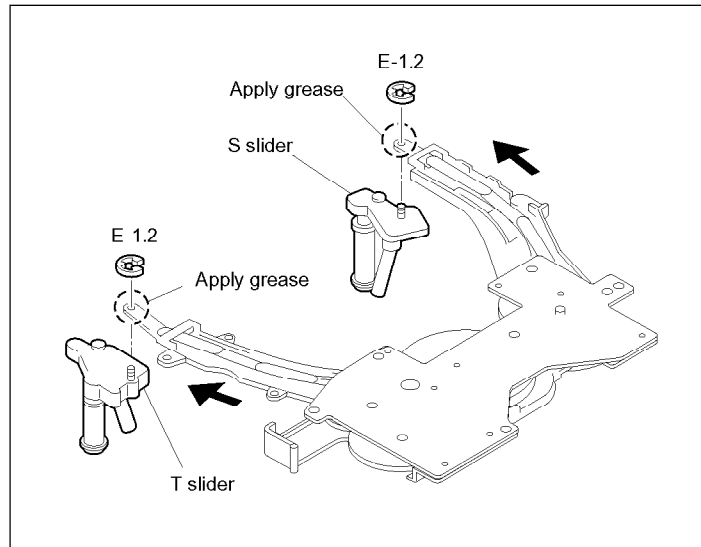


10. Slider replacement

- (1) Pull out the slider and remove the E ring at the back of the slider to be replaced.
- (2) Pull the slider out from the end of the rail.
- (3) Apply grease thinly to both surfaces of the tip of the threading link assembly.

Note

Handle the removed slider gently and take care that the guide and roller are not damaged or deformed.

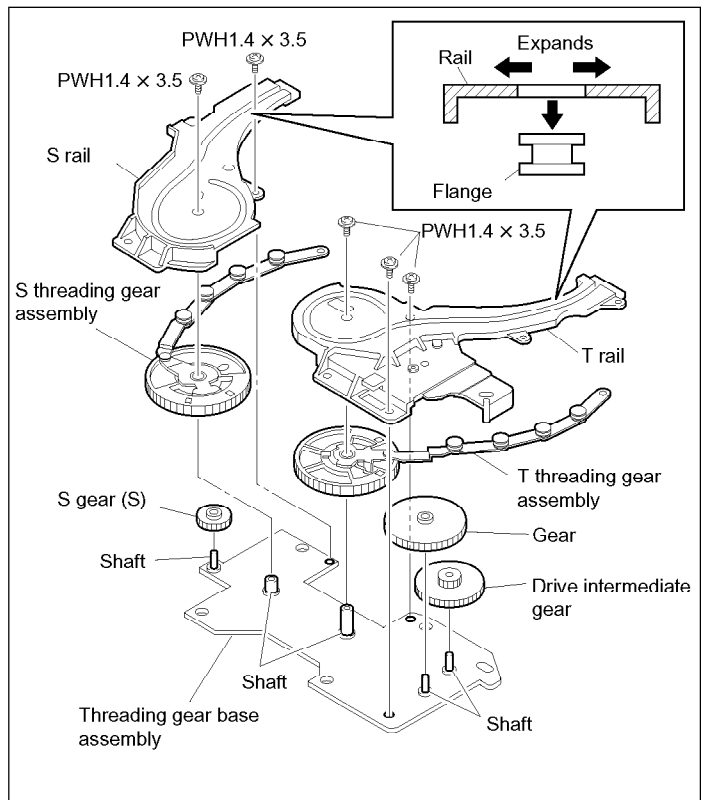


11. Threading gear assembly removal

- (1) Remove the link shaft's flange of the gear assembly from the rail while expanding the rail of the threading gear assembly.
- (2) Remove the five screws, and then remove the rail and threading gear assembly from the threading link assembly.

12. Cleaning and lubrication

- (1) Clean the installation shaft of the removed threading gear assembly with a cleaning cloth moistened with a cleaning fluid.
- (2) Apply oil of a 1/4 drop to the cleaned shaft.



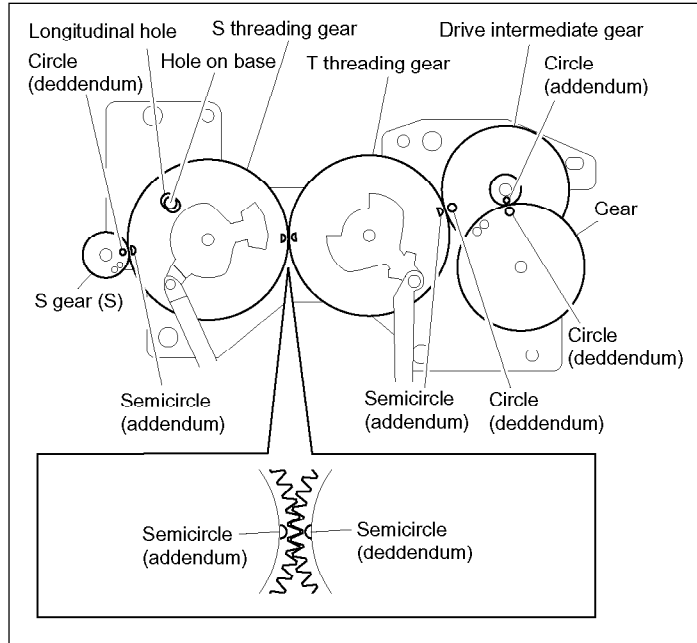
13. Threading gear assembly installation

- (1) Attach the S gear (S), S threading gear assembly, T threading gear assembly, drive intermediate gear, and gear in the threading gear base assembly while aligning them with the mark shown in the figure.
- (2) Loosely tighten the center screw of each S and T threading gear, and then reattach the S and T rails.

Note

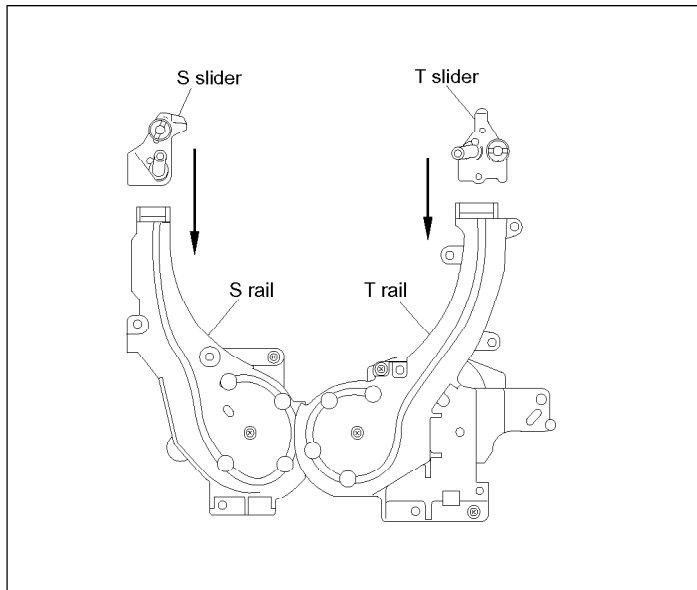
Be careful not to shift the gear phase between the S gear (S) and S threading gear, because the S threading gear assembly tends to move off from the threading link assembly.

- (3) Pass the link shaft's flanges of the S and T threading gear assemblies through the rail while expanding the rail.
- (4) Retighten the gear's center screws and attach the S and T threading gear assemblies with the remaining three screws.

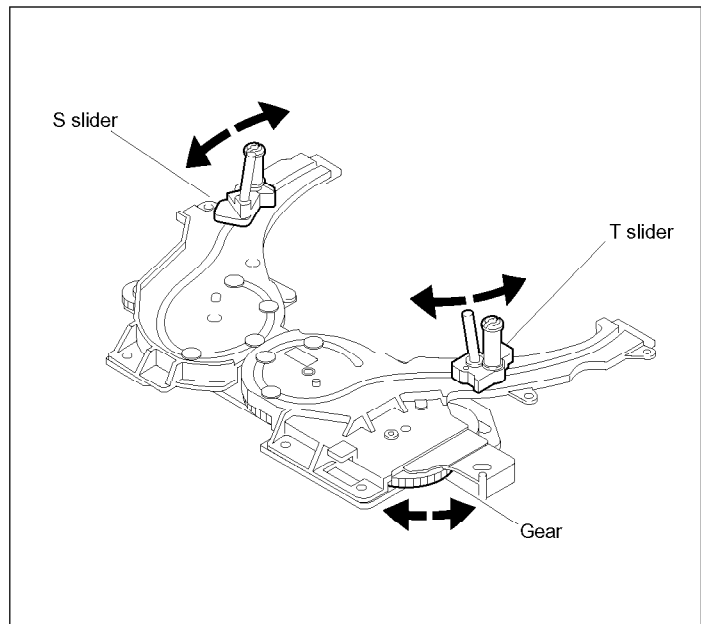


14. Slider reinstallation

- (1) Pass the slider through the rail in the direction of the arrow.
- (2) Insert the installing shaft of the slider in the installing hole of the link and attach it with a new E ring.

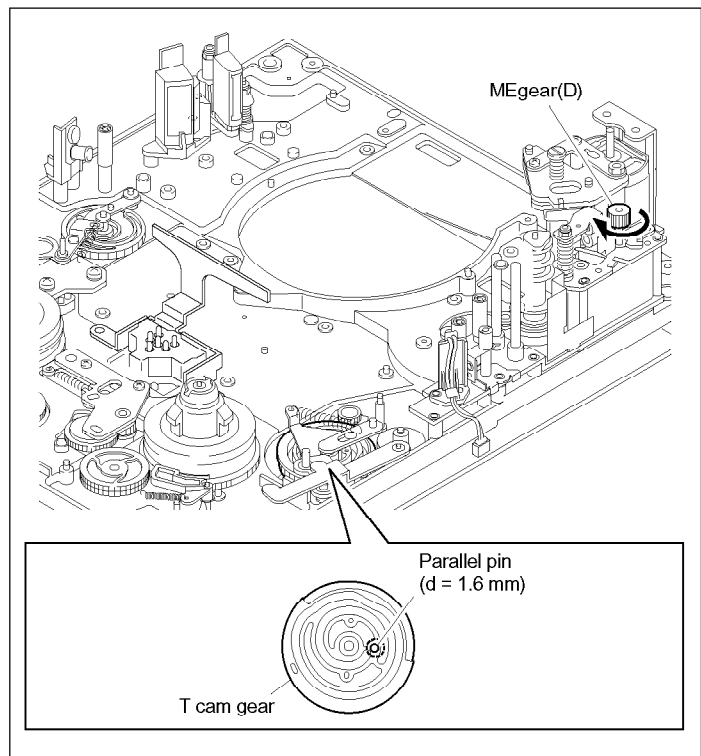


- (3) Turn the gear shown in the figure and check that the S and T sliders move smoothly.

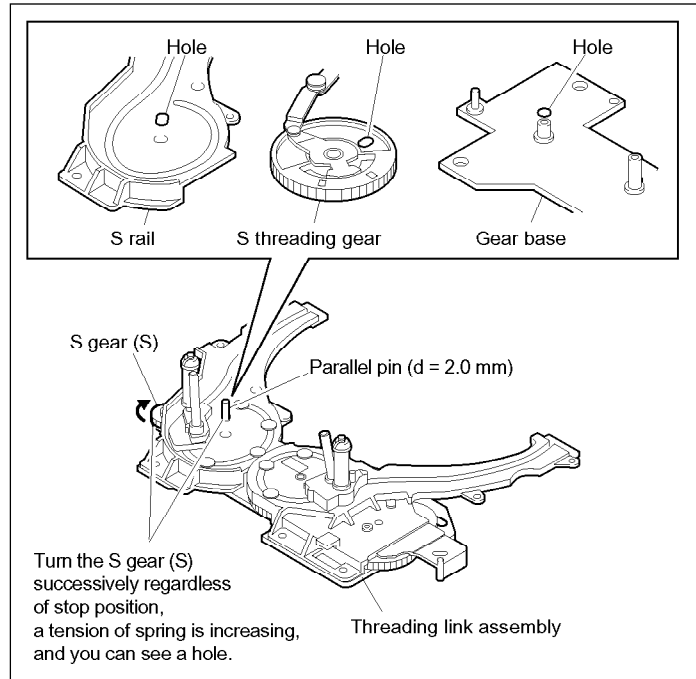


15. Threading link assembly reinstallation

- (1) Turn the ME gear (D) clockwise so that the T cam gear hole and mechanical deck hole are located as shown in the figure, and then insert the parallel pin (d = 1.6 mm) into these holes.



- (2) Turn the S gear (S) of the threading link assembly clockwise as far as it will go, when opposing the spring force to coincide with three holes, the hole on the S rail shown in the figure, the hole on the S threading gear and the hole on the gear base. And then insert the parallel pin ($d = 2.0 \text{ mm}$) into these three holes.



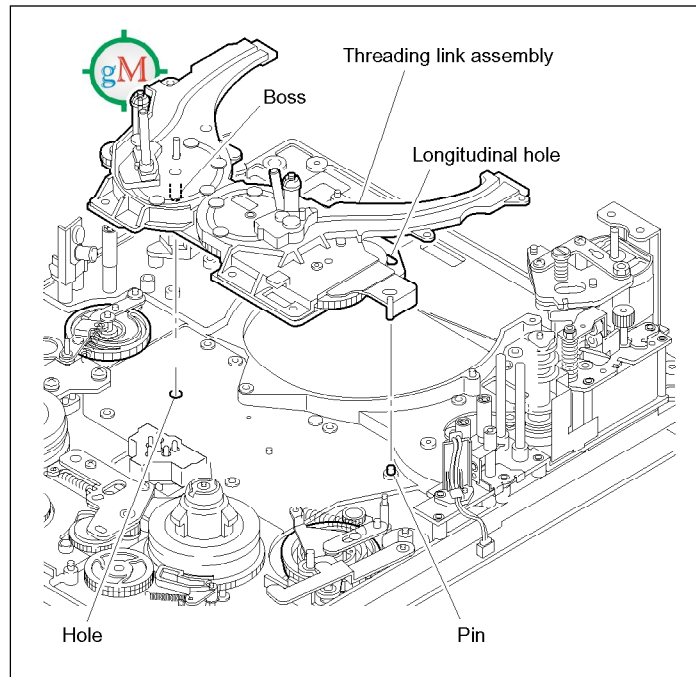
- (3) Attach the threading link assembly so that the boss and longitudinal hole of the link assembly are put onto the hole and pin on the mechanical deck.

- (4) Fix the base assembly with the eight screws.

Note

Be careful not to damage the stationary head and other parts with a screwdriver during installation.

- (5) Pull the three parallel pins out inserted in former procedures.



16. S and T catchers reinstallation

Reattach the S catcher, catcher plate and T catcher with the three screws, respectively.

17. Protector reinstallation

Reattach the protector with the two screws.

18. Tension regulator band reinstallation

Reattach the tension regulator band.
(Refer to Section 5-9.)

19. T tension regulator arm reinstallation

Reattach the T tension regulator arm.
(Refer to Section 5-9.)

20. S tension regulator arm reinstallation

Reattach the S tension regulator arm with two screws. (Refer to Section 6-9.)

21. Drum assembly reinstallation

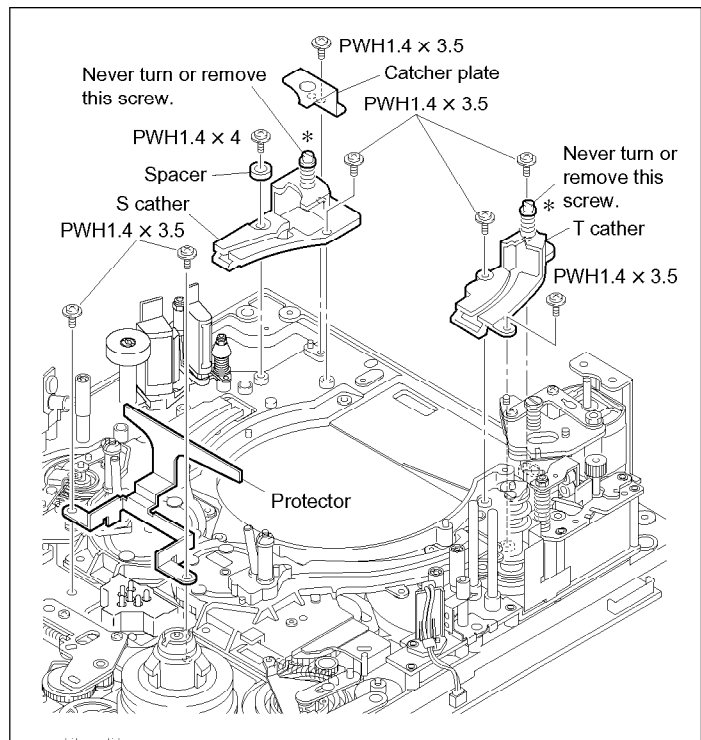
Reattach the drum assembly.
(Refer to Section 5-5.)

22. T drawer sub assembly reinstallation

Reattach the T drawer sub assembly.
(Refer to Section 5-7.)

23. VH cleaner assembly reinstallation

Reattach the VH cleaner assembly.
(Refer to Section 5-6.)

**Adjustment after replacement****24. Tape running adjustment**

(Refer to Section 7-4.)

25. Video tracking adjustment

(Refer to Section 7-5.)

26. CTL head position adjustment

(Refer to Section 7-7.)

27. AT head position adjustment

(Refer to Section 7-8.)

6-6. Reel Table Replacement

Outline

Replacement

Tension regulator band assembly removal (when T reel table is replaced)
S brake assembly removal (when S reel table is replaced)
Reel table removal
Reel shaft cleaning
Reel table cleaning
Reel table installation (1)
Reel table height adjustment
Reel table installation (2)
Tension regulator band assembly reinstallation (when T reel table was replaced)
S brake assembly reinstallation (when S reel table was replaced)
Operation check

Adjustment after replacement

FWD back tension adjustment (when S reel table was replaced)
REV back tension adjustment (when T reel table was replaced)
Tape running adjustment

Precaution

The height of the reel table is used as the reference of a tape running system. After the reel table is replaced, be sure to perform the reel table height adjustment.

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Note

Four poly-slider washers are located at the top and bottom of the reel table.
The poly-slider washers (0.13 mm thickness : 3-303-961-01) at the top of the reel table are necessary parts as spare ones for the reel table replacement. Be careful not to lose or damage them.

Tools

- Stop washer fastening tool : J-6323-530-A
- Torque cassette : J-6323-890-A
- Reel table height adjustment tool : J-6324-150-A
- Cassette reference plate : J-7032-610-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01
- Torque screwdriver (3 kg) : J-6325 400 A
- Torque screwdriver's bit (M1.4) : J-6325-110-A

Replacement

1. Tension regulator band assembly removal (when T reel table is replaced)

- (1) Remove the stop washer of the tension regulator band assembly.

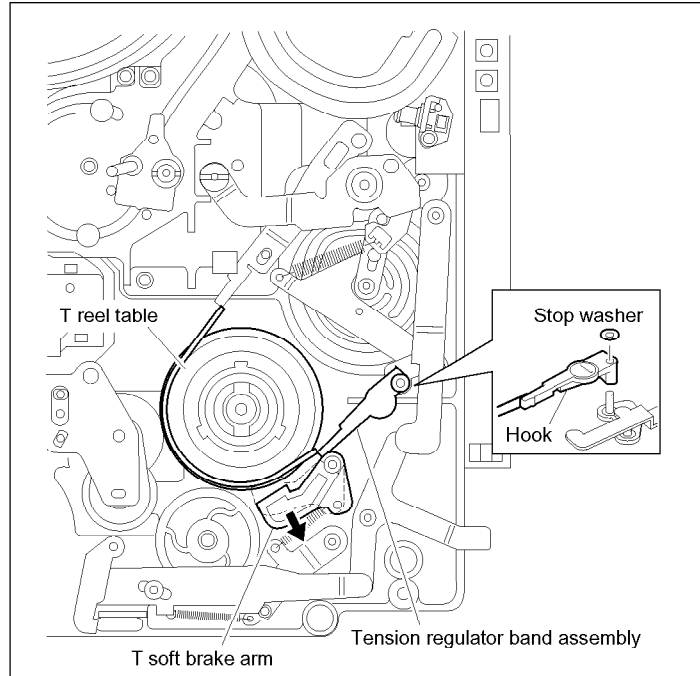
Note

Do not apply excessive force to the tension regulator arm assembly during the stop washer removal.

- (2) Move the T soft brake arm in the direction indicated by the arrow with a finger, and then remove the hook of the tension regulator band assembly from the band adjustment plate.

Note

Do not touch the felt surface of the tension regulator band assembly with fingers. Do not bend the tension regulator band assembly or make oil adhere to the felt surface.



2. S brake assembly removal (when S reel table is replaced)

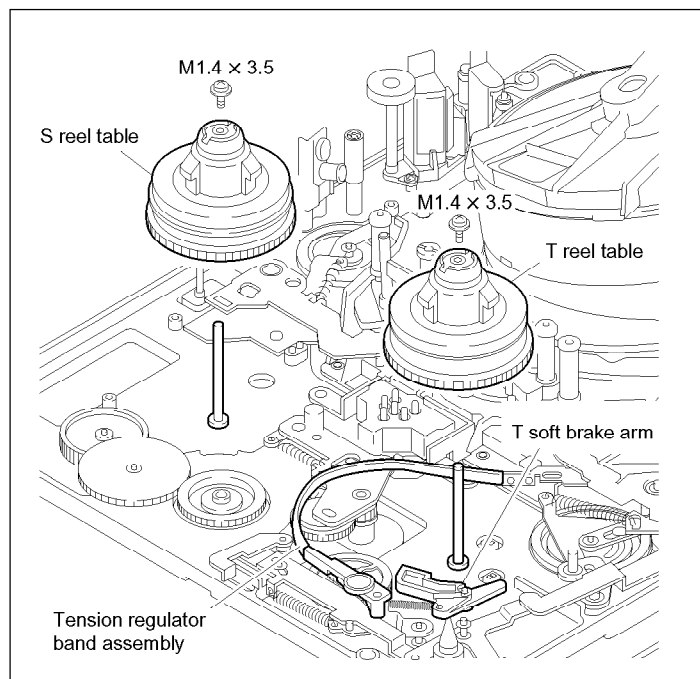
Remove the S brake assembly.
(Refer to Section 5-11.)

3. Reel table removal

- (1) Remove the screw on the top of the reel table.
- (2) Pull the reel table out while releasing the tension regulator band assembly and T soft brake arm or S main brake, which interfere with the reel table, with a finger.

Note

If poly-slider washers may cling to the bottom of the reel table and remove together, return all the poly-slider washers onto the reel shaft.



4. Reel shaft cleaning

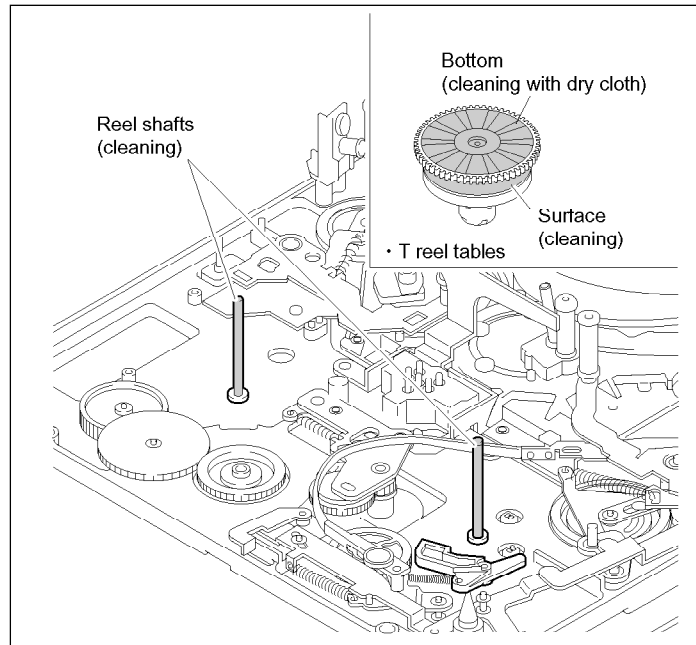
Clean the reel shaft with a cleaning cloth moistened with a cleaning fluid.

5. Reel table cleaning

- (1) Clean the surface of the reel table, that the tension regulator band or S brake contact, with a cleaning cloth moistened with a cleaning fluid.
- (2) Wipe the bottom of the T reel table with a dry cloth.

6. Reel table installation (1)

Slide the reel table onto the reel shaft while releasing the tension regulator band assembly and T soft brake arm or S main brake with a finger.



7. Reel table height adjustment

- (1) Place the cassette reference plate on the two cassette posts, and then attach it as shown in the figure.

Turn the adjustment screw of the cassette reference plate and adjust to fit the plate on the mechanical deck, not to rattle.

- (2) Move the reel table height adjustment tool to the flange surface of the S and T reel tables at intervals of 120 degrees shown in the figure, and check that the specifications are satisfied. If the specifications are not satisfied, adjust according to the following step (3).

- (3) Adjust the reel table height by increasing or decreasing the number of poly-slider washers under the reel table.

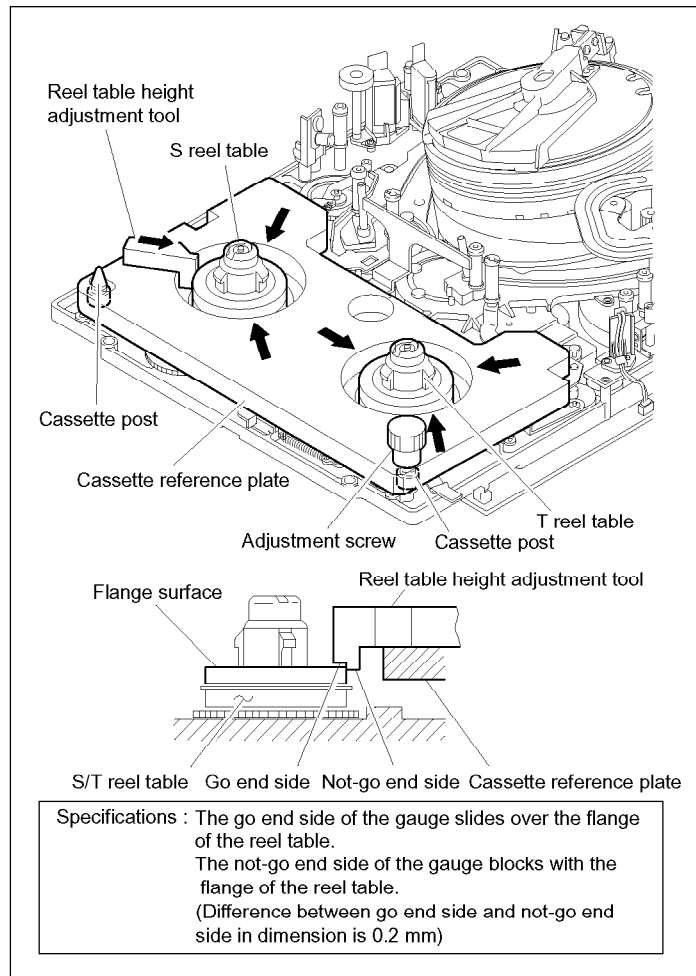
When the reel table height is lower than the specifications;

Insert the poly-slider washers that is at the top of the reel table onto the bottom of the reel table.

When the reel table height is higher than the specifications ;

Insert the poly-slider washers that is at the bottom of the reel table onto the top of the reel table.

And then, recheck the specifications.



8. Reel table installation (2)

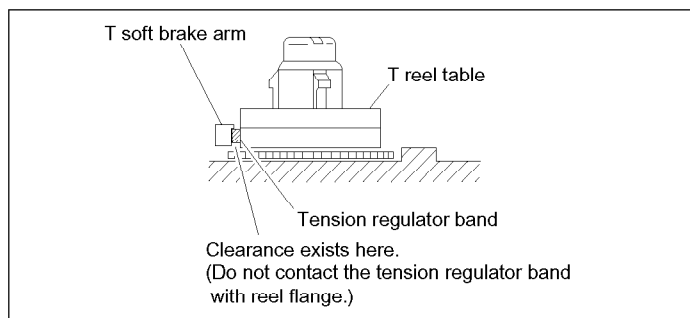
- (1) Secure the reel table using a screw.
- (2) Check the vertical play of the reel table by moving it up and down.

9. Tension regulator band assembly reinstallation (when T reel table was replaced)

Put the hook of the tension regulator band assembly removed in procedure 1 onto the shaft on the band adjustment bracket, and then fasten it using a new stop washer.

Notes

- Be careful not to bend or damage the tension regulator band assembly during reinstallation.
- Check the clearance exists between the tension regulator band assembly and the flange of the reel table around the T soft brake shoe shown in the figure, after reinstallation.



10. S brake assembly reinstallation (when S reel table was replaced)

Reattach the S brake assembly.

(Refer to Section 5-11.)

11. Operation check

- (1) Put the unit into the unthreading end state.
- (2) Rotate the reel table while releasing the T soft brake or S main brake with a finger, and then check that the reel table and idler rotate smoothly.

Adjustment after replacement

12. FWD back tension adjustment (when S reel table was replaced)

(Refer to Section 7-3-1.)

13. REV back tension adjustment (when T reel table was replaced)

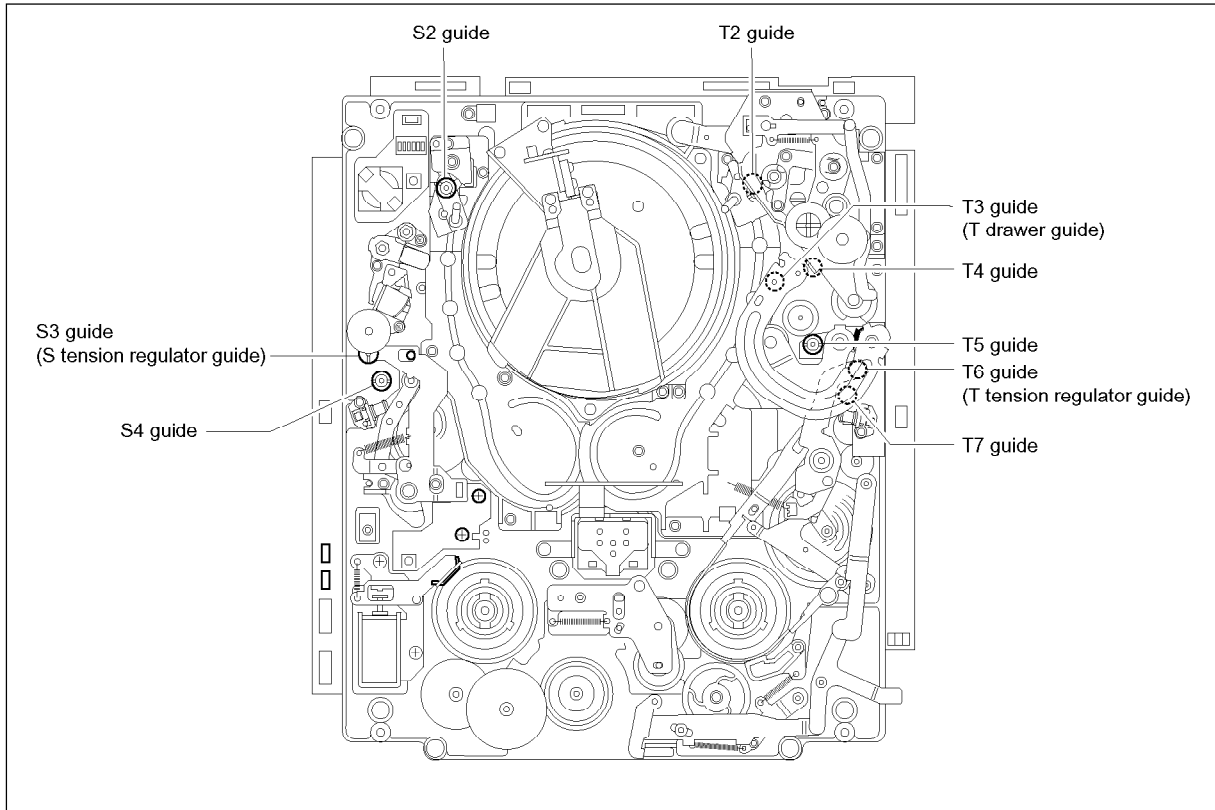
(Refer to Section 7-3-2.)

14. Tape running adjustment

(Refer to Section 7-4.)

6-7. Tape Guide Replacement

The replacement procedures of the following tape guides are described in this section.



Outline

Replacement

Tape guide removal
Tape guide installation

Adjustment after replacement

Tape guide height tentative adjustment
Tape running adjustment

Precautions

- Even though the multiple tape guides replacement are necessary, replace the tape guide one by one. Be sure to perform the tape running adjustment after each tape guide replacement is completed.

If the multiple tape guides are replaced at the same time, it is very difficult to perform the tape running adjustment. Then, do not perform the multiple tape guides replacement at the same time.

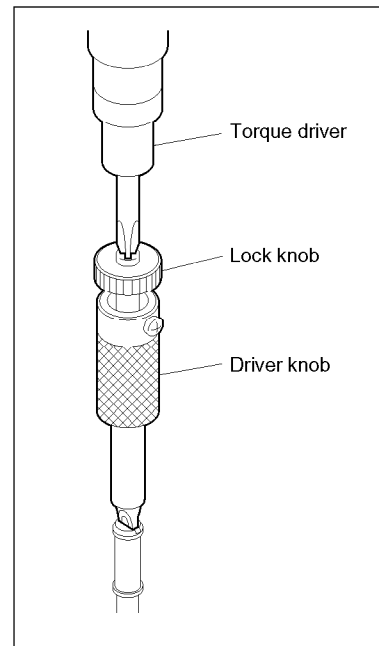
- Tighten the setscrew at the top of the tape guide with the following tightening torque.

$$9 \times 10^{-2} \text{ N}\cdot\text{m} \{0.9 \text{ kgf}\cdot\text{cm}\}$$

How to tighten the setscrew with specified tightening torque:

Set the torque screwdriver to the specified tightening torque.

Set the torque screwdriver tip to the philips type screw on top of the tape guide adjustment driver as shown in the figure, and then tighten the setscrew using the torque screwdriver.



Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)

Tools

- Tape guide adjustment driver (45) : J-6322-420-A
- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg·cm) : J-6325-400-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

Note

If the tape guide adjustment driver tip is broken, it is recommended to repair by using the following spare bit.

- Spare bit (0.89 mm) : J-6322-420-3

Replacement

1. Tape guide removal

Note

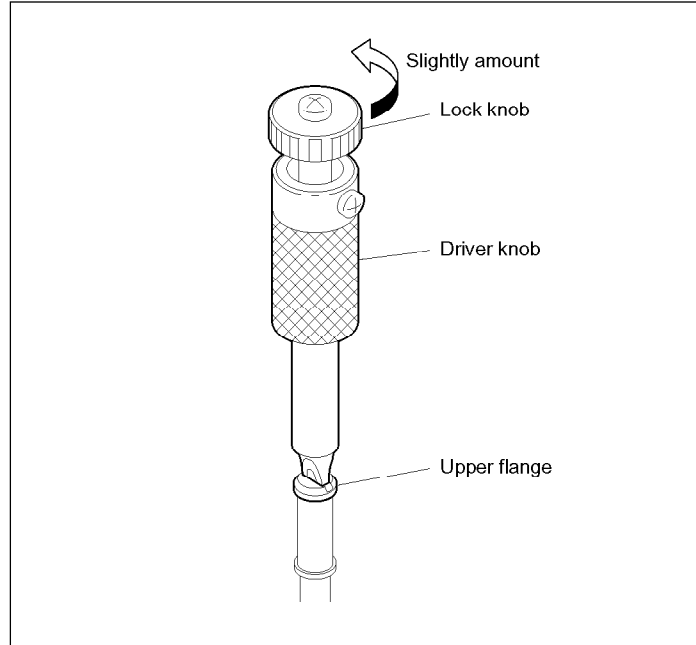
When replacing the T3 tape guide (T drawer guide), remove the pinch arm assembly first. (Refer to Section 5-7.)

- (1) Set the tape guide adjustment driver on top of the upper flange as shown in the figure.
- (2) Loosen the setscrew by turning the driver knob counterclockwise a slightly amount.

Note

As for the S3 guide (S tension regulator guide), T3 guide (T drawer guide), and T6 guide (T tension regulator guide), do not loosen the setscrew for these guides because it is difficult to adjust their height. As to other tape guides, when replacing the tape guide roller only, it is recommended to loosen the setscrew a slightly amount for easy height adjustment.

- (3) Turn the driver knob counterclockwise, and then remove the upper flange from the tape guide shaft.
- (4) Pull the guide roller out from the shaft. The lower flange and compression spring can be removed.



2. Tape guide installation

- (1) Slide the compression spring and two washers onto the guide shaft as shown in the figure.
- (2) Pass the lower flange through the guide shaft.
- (3) Pass the guide roller through the guide shaft.

Notes

- For S2 and T2 guide rollers:
Put the black marking on the guide roller up as shown in the figure.
- For S3 and T6 guide rollers:
Put the step inside the guide roller down as shown in the figure.
- For T3 guide roller:
Put the black marking on the guide roller down as shown in the figure.

- (4) Screw the setscrew to the upper flange.

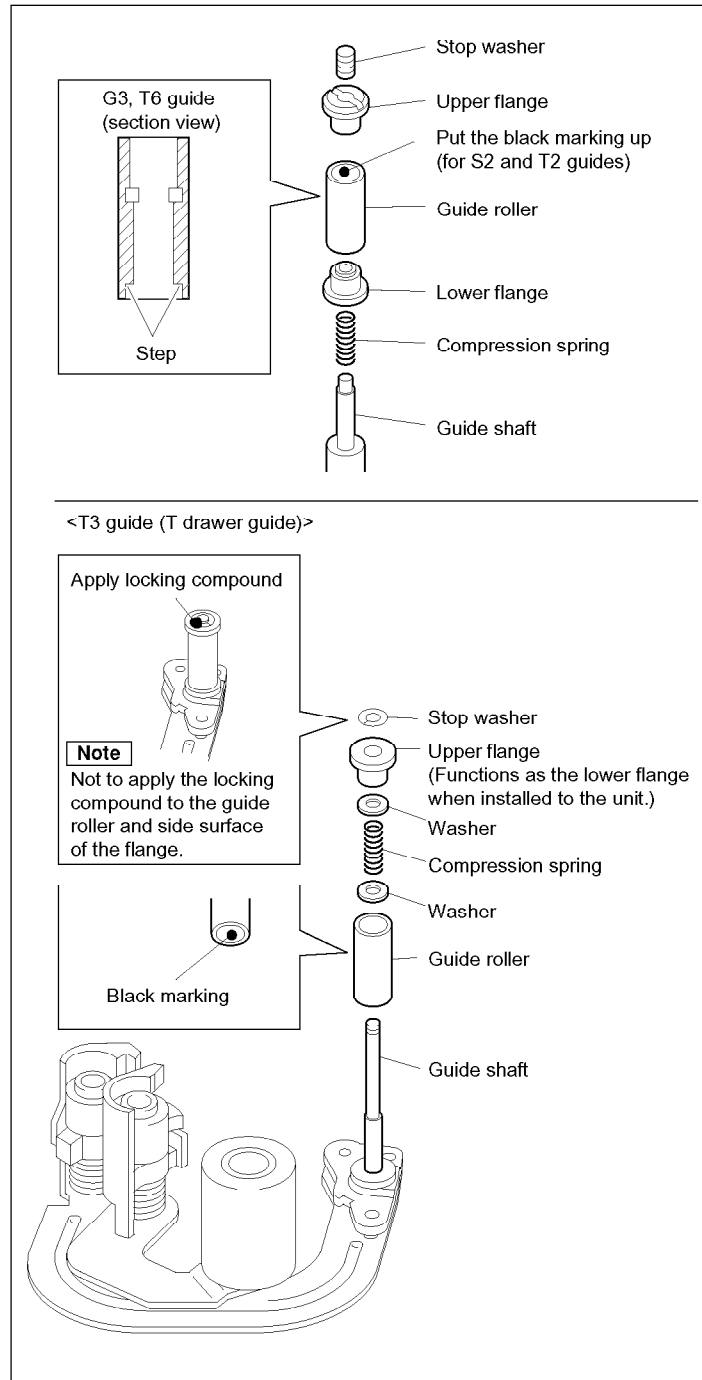
Note

It is not necessary to perform this step when the upper flange and setscrew are re-used.

- (5) Turn the upper flange clockwise, and thread it to the guide shaft.

Notes

- After the T3 guide (T drawer guide) is replaced, apply the locking compound to the top of the T3 guide shaft, stop washer and T3 lower flange as shown in the figure. Do not run the tape within 30 minutes after applying the locking compound.
- Be careful not to apply the locking compound to the tape running surface of the tape guide roller and the side surface of the flange.

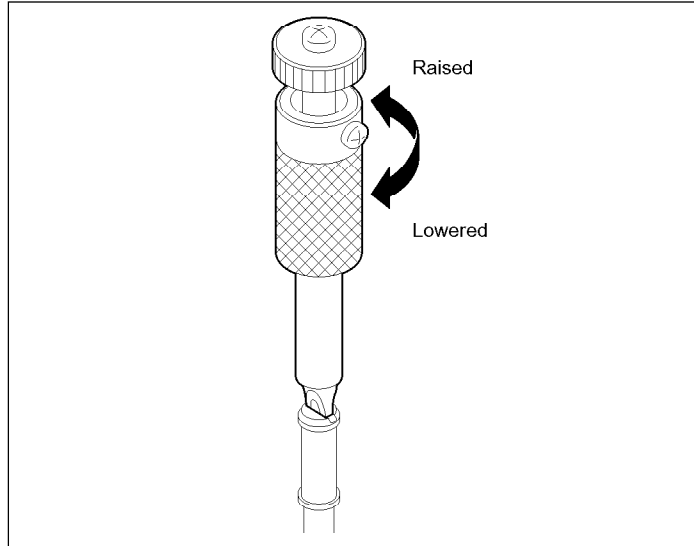


Adjustment after replacement

3. Tape guide height tentative adjustment

- (1) Turn on the power.
- (2) Insert the commercially available cassette tape into the unit, and then put the unit into the PLAY state at the beginning portion of the tape.
- (3) Adjust the replaced tape guide height using the tape guide adjustment driver to meet the specifications.
- (4) Tighten the setscrew with specified tightening torque.

Tightening torque : $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$



4. Tape running adjustment

(Refer to Section 7-4.)

Specifications :

- S2 guide
Tape runs in contact with the upper flange.
- S3 guide (S tension regulator guide)
Tape runs without contacting the upper and lower flanges.
If the tape runs in contact with the upper or lower flange, tape curl is acceptable within the range of less than 1/10 of the tape width.
- T2 guide
Tape runs in contact with the upper flange.
- T3 guide (T drawer guide)
Tape runs in contact with the lower flange.
If tape curl occurs, tape curl is acceptable within the range of less than 1/10 of the tape width.
- T4 guide
Tape runs without contacting the upper and lower flanges.
Even if the tape runs in contact with the upper or lower flange, tape curl could not be acceptable.
- T6 guide (T tension regulator guide)
Tape runs without contacting the upper and lower flanges.
If tape runs in contact with the upper or lower flange, tape curl is acceptable within the range of less than 1/10 of the tape width.
- T7 guide
Even if the tape runs without contacting this tape guide roller, it is acceptable.

6-8. Pinch Press Cam Replacement

Outline

Replacement

T drawer sub assembly removal
 VH cleaner assembly removal
 Tape guard removal
 Pinch press cam removal
 Pinch press cam installation/phase adjustment
 Pinch press cam fixing
 Tape guard reinstallation
 VH cleaner assembly reinstallation
 T drawer sub assembly reinstallation

Check after replacement

Operation check

Precaution

The following new stop washer and E ring are required when replacing the pinch press cam.

Stop washer : 3-559-408-11

E ring : 7-624-105-04

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- Stop washer fastening tool : J-6323-530-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Parallel pin (d = 1.6 mm) : 3-649-266-01
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01
- Grease (PG-662) : 7-651-000-59
- Tweezers

Replacement

1. T drawer sub assembly removal

Remove the T drawer sub assembly.
(Refer to Section 5-7.)

2. VH cleaner assembly removal

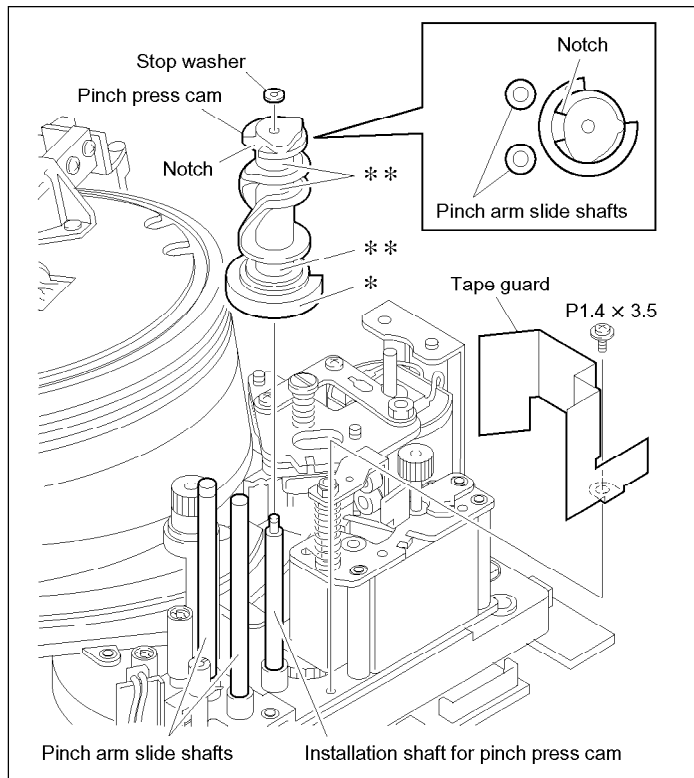
Remove the VH cleaner assembly.
(Refer to Section 5-6.)

3. Tape guard removal

Remove the one screw to remove the tape guard.

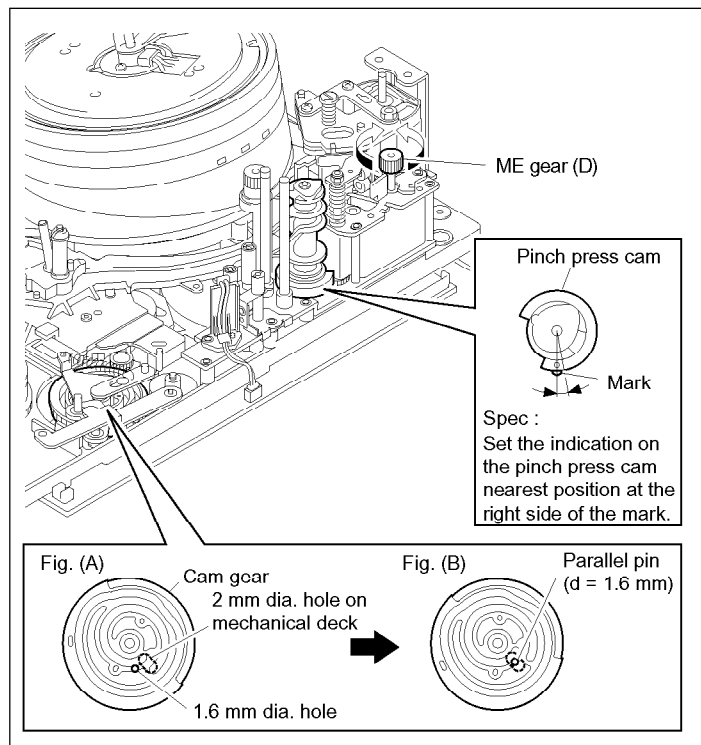
4. Pinch press cam removal

- (1) Remove the stop washer using tweezers, and then remove the pinch press cam.
- (2) Clean the installation shaft of the pinch press cam with a cleaning cloth moistened with a cleaning fluid.
- (3) Apply grease of two grains in the size of 3 mm dia. to the *-marked portion of a new pinch press cam shown in the figure. Similarly, apply grease of five grains to the whole circumference of the ***-marked cam groove.
- (4) Attach the pinch press cam onto the shaft while facing the notch of the pinch press cam in the direction shown in the figure.



5. Pinch press cam installation/phase adjustment

- (1) Turn the ME gear (D) on the gear box clockwise until the positioning hole (1.6 mm) of the S cam gear and the reference hole of the mechanical deck are located as shown in figure (A).
- (2) Turn the ME gear (D) counterclockwise until the cam gear hole and mechanical deck hole are located as shown in figure (B), and then insert a parallel pin (d = 1.6 mm) into these holes.
- (3) Turn the ME gear (D) counterclockwise again with the parallel pin inserted. Check to see that the position of the mark of the pinch press cam and the mark of the drawer base bracket satisfy the specifications when the cam gear operation stops. If the specifications are not satisfied, lift the pinch press cam slightly up and shift the engagement of each tooth.
- (4) Pull the parallel pin (d = 1.6 mm) out.



6. Pinch press cam fixing

Fix the pinch press cam with a new stop washer.

7. Tape guard reinstallation

Reattach the tape guard, and fix it with the one screw.

8. VH cleaner assembly reinstallation

Reattach the VH cleaner assembly.
(Refer to Section 5-6.)

9. T drawer sub assembly reinstallation

Reattach the T drawer sub assembly.
(Refer to Section 5-7.)

Check after replacement

10. Operation check

- (1) Check that the pinch arm is smoothly moved downward and pressed against the capstan shaft when the manual eject knob is turned clockwise while pushing down.
- (2) Check that the pinch arm is smoothly moved upward and put into the unthreading end state when the manual eject knob is turned counterclockwise.

6-9. S Tension Regulator Arm Assembly Replacement

Outline

Replacement

S tension regulator arm assembly removal
S tension regulator arm assembly installation
S tension regulator guide cleaning

Adjustment after replacement

S tension regulator offset/gain adjustment
Tape running adjustment

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section1-5.)

Tools

- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver bit's (for M1.4) : J-6325-110-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01

Replacement

1. S tension regulator arm assembly removal

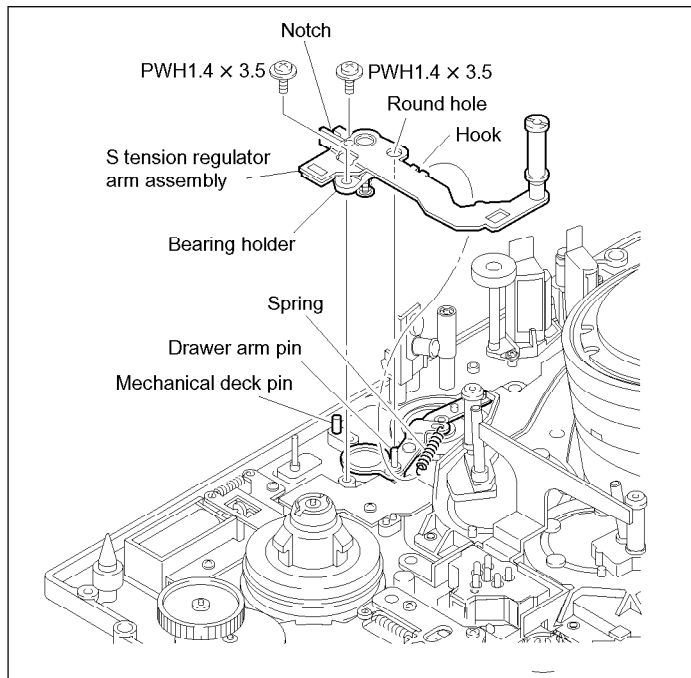
- (1) Remove the two screws fixing the bearing holder.
- (2) Unhook the spring from the S tension regulator arm assembly shown in the figure, and then remove the S tension regulator arm assembly.

2. S tension regulator arm assembly installation

- (1) Align the large round hole of the drawer arm with the round hole of the mechanical deck.
- (2) Set the S tension regulator arm assembly on the mechanical deck so that the drawer arm pin is put onto the round hole and the mechanical deck pin is inserted into the notch of the bearing holder, and then attach it with the two screws.
- (3) Hook the spring removed in procedure 1.

3. S tension regulator guide cleaning

- (1) Clean the guide roller of the S tension regulator arm assembly with a cleaning cloth moistened with a cleaning fluid.
- (2) After cleaning, wipe with a dry cloth.



Adjustment after replacement

4. S tension regulator offset/gain adjustment

(Refer to Section 7-2.)

5. Tape running adjustment

(Refer to Section 7-4.)

6-10. T Tension Regulator Arm Assembly Replacement

Outline

Replacement

T tension regulator arm assembly removal
T tension regulator arm assembly installation
T tension regulator guide cleaning

Adjustment after replacement

REV back tension adjustment
Tape running adjustment

Precaution

The following new stop washer is required when replacing the T tension regulator arm assembly.

Stop washer : 3-559-408-11

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- Stop washer fastening tool : J-6323-530-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01
- Tweezers

Replacement

1. T tension regulator arm assembly removal

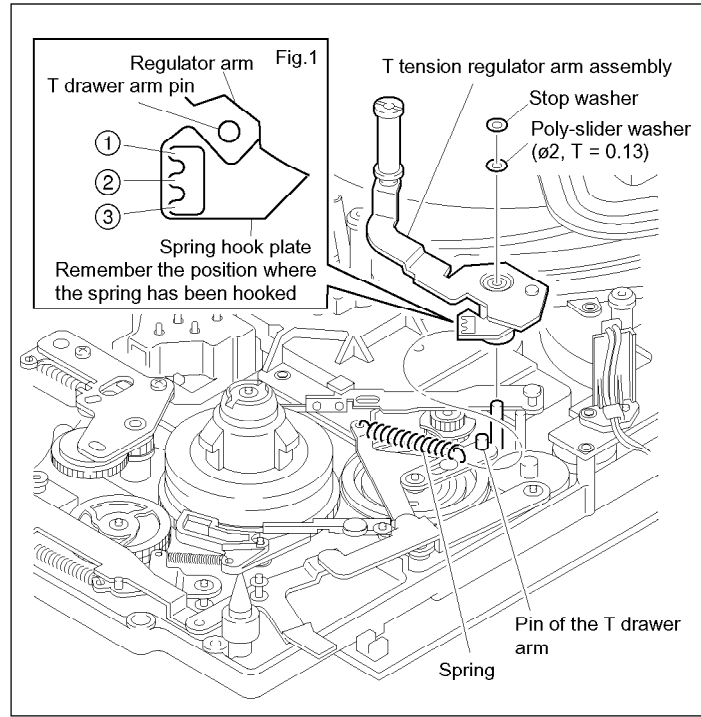
- (1) Unhook the spring of the tension regulator arm shown in the figure.
At that time, remember the position where the spring has been hooked.
- (2) Remove the stop washer and poly-slider washer using tweezers, then remove the T tension regulator arm assembly.

2. T tension regulator arm assembly installation

- (1) Slide a new T tension regulator arm assembly onto the shaft so that the pin of the T drawer arm is put between the spring hook plate and regulator arm of the T tension regulator arm assembly, and then secure it with the poly-slide washer and a new stop washer.
- (2) Hook the spring removed in step (1) of procedure 1 in the original position.

3. T tension regulator guide cleaning

- (1) Clean the guide roller of the tension regulator arm assembly with a cleaning cloth moistened with a cleaning fluid.
- (2) After cleaning, wipe with a dry cloth.



Adjustment after replacement

4. REV back tension adjustment

(Refer to Section 7-3-2.)

5. Tape running adjustment

(Refer to Section 7-4.)

6-11. T Idler Assembly Replacement

Outline

Replacement

Spring removal
Eject link assembly/release arm assembly removal
T idler assembly removal
T idler assembly installation
Eject link assembly/release arm assembly reinstallation
Spring reinstallation

Check after replacement

Operation check

Precaution

The following new stop washer is required when replacing the T idler assembly.

Stop washer : 3-559-408-11 (4 pcs)

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- Stop washer fastening tool : J-6323-530-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Oil : 7-661-018-18
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01
- Tweezers

Replacement

1. Spring removal

Unhook the two springs of the gear connecting arm assembly side shown in the figure.

2. Eject link assembly/release arm assembly removal

Remove the two stop washers fastening the eject link assembly and one stop washer fastening the release arm assembly using tweezers, and then remove the eject link and release arm assemblies from the mechanical deck.

3. T idler assembly removal

Remove the stop washer using tweezers, and then remove the T idler assembly.

Note

If poly-slider washer (0.25 thickness : 3-303-961-11) may cling to the bottom of the T idler assembly and remove together, return the poly-slider washer onto the shaft.

4. T idler assembly installation

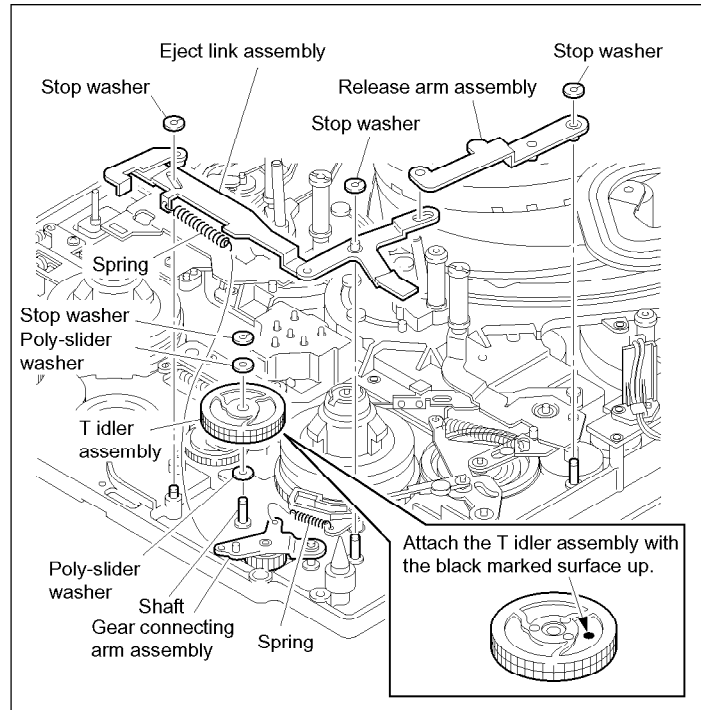
- (1) Clean the installation shaft with cleaning cloth moistened with cleaning fluid.
- (2) Apply a 1/4 drop of oil to the installation shaft.
- (3) Attach a new T idler assembly onto the shaft with the black marked surface shown in the figure up.
- (4) Attach the polywasher (0.13 thickness : 3-303-961-01).
- (5) Attach a new stop washer.

5. Eject link assembly/release arm assembly reinstallation

Reattach the eject link and release arm assemblies using the three new stop washers.

6. Spring installation

Hook the two springs removed in procedure 1 on the gear connecting arm assembly.



Check after replacement

7. Operation check

Insert the cassette tape and check that the PLAY, F-FWD, and REW functions are properly operated.

6-12. Cam Gear Assembly Replacement

Outline

Replacement

S cam gear positioning
T tension regulator arm assembly removal
Tension regulator band removal
Release arm assembly removal
T tension drawer arm assembly removal
Cam gear assembly removal
Cam gear assembly installation
T tension drawer arm assembly reinstallation
Release arm assembly reinstallation
Tension regulator band reinstallation
T tension regulator arm assembly reinstallation
Parallel pin removal

Adjustment after replacement

Tape running check
REV back tension check

Precaution

The following new stop washers (five pieces) are required when replacing the cam gear assembly.

Stop washer : 3-559-408-11



Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

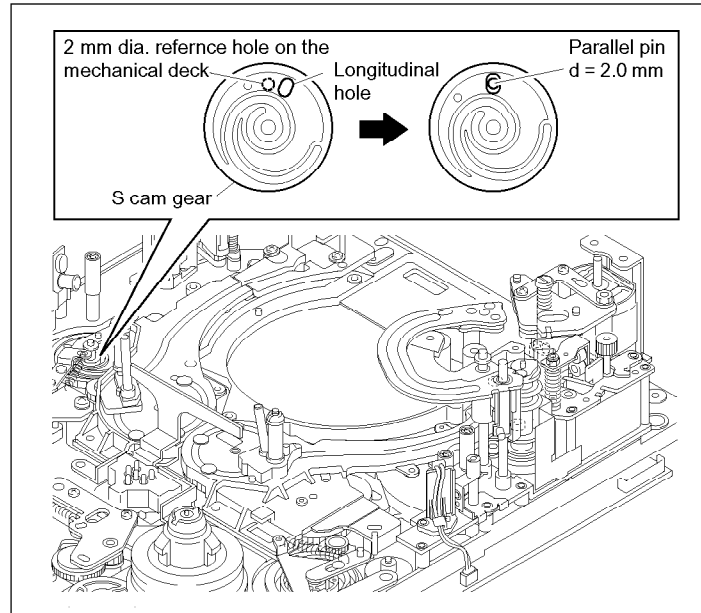
Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Stop washer fastening tool : J-6323-530-A
- Parallel pin (d = 2.0 mm) : 3-703-358-04
- Cleaning cloth (15 × 15) : 3-184-527-01
- Cleaning fluid : 9-919-573-01
- Oil : 7-661-018-18
- Grease (PG-662) : 7-651-000-59
- Tweezers

Removal

1. S cam gear positioning

Turn the S cam gear counterclockwise with a finger to align the longitudinal hole of the S cam gear with the reference hole (2.0 mm) on the mechanical deck. And then insert the parallel pin ($d = 2.0$ mm) into these holes.



2. T tension regulator arm assembly removal

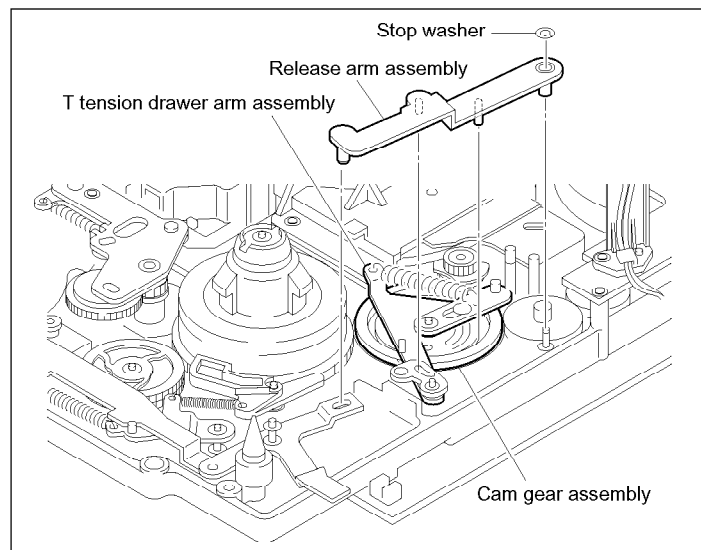
Remove the T tension regulator arm assembly. (Refer to Section 5-9.)

3. Tension regulator band removal

Remove the tension regulator band. (Refer to Section 5-9.)

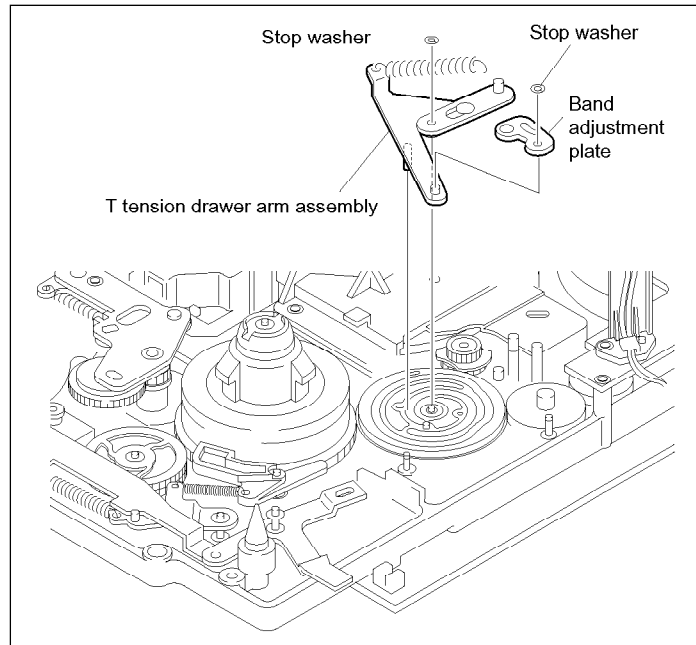
4. Release arm assembly removal

Remove the stop washer to remove the release arm assembly.



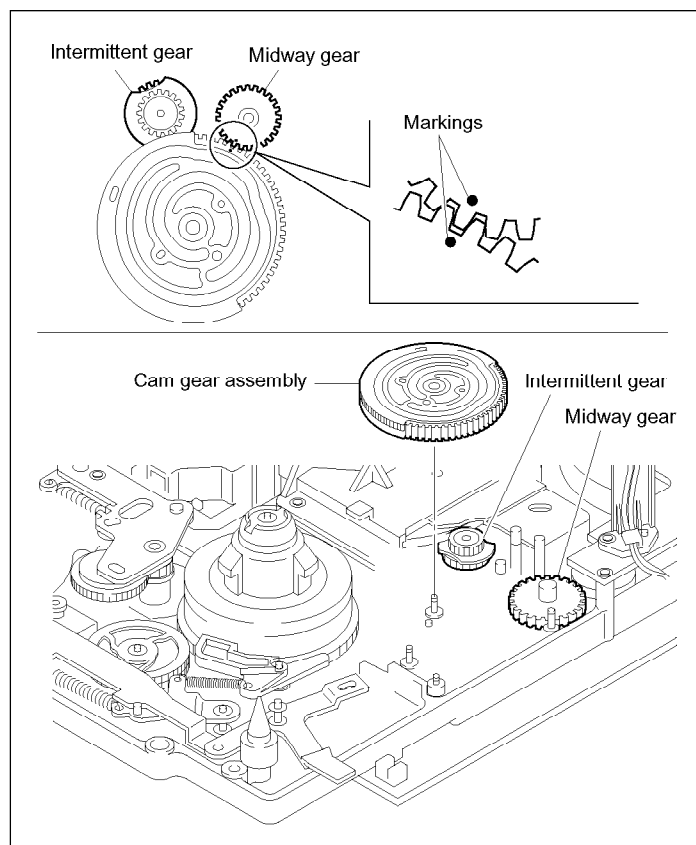
5. T tension drawer arm assembly removal

- (1) Remove the stop washer, and then remove the band adjustment plate.
- (2) Remove the stop washer, and then remove the T tension drawer arm assembly.



6. Cam gear assembly removal

- (1) Make either of the tooth of the cam gear assembly and the tooth of the midway gear which are meshed each other, using tweezers.
- (2) Remove the cam gear assembly.



Installation

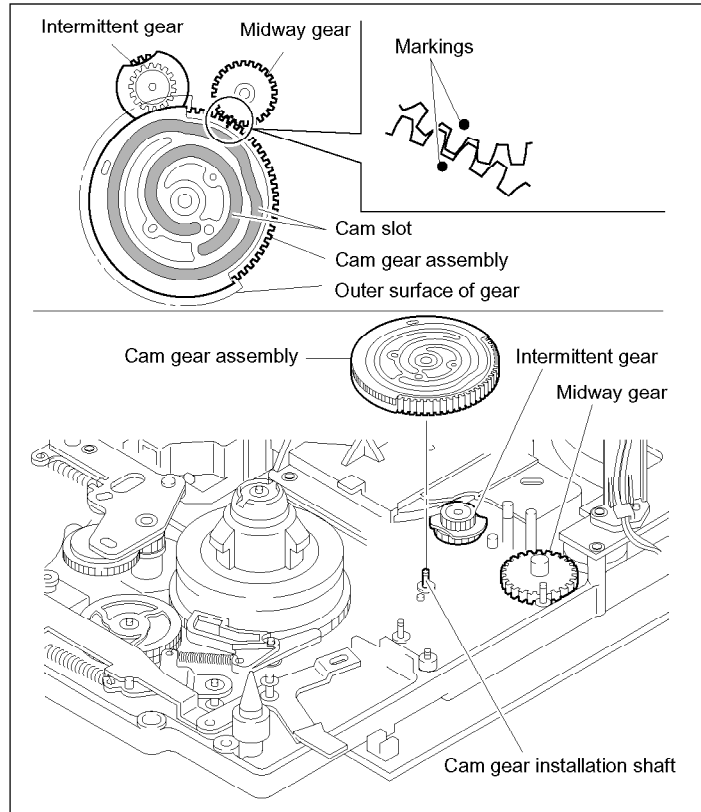
7. Cam gear assembly installation

- (1) Apply one-quarter of a drop of oil to the shaft of the cam gear assembly.
- (2) Make the tooth of a new cam gear assembly in the same position as the marked position of the removed cam gear assembly.
- (3) Peel off the protective seal on the reflective seal surface of the new cam gear assembly. And then clean the peeled-off portion of the reflector with a cleaning fluid.

Note

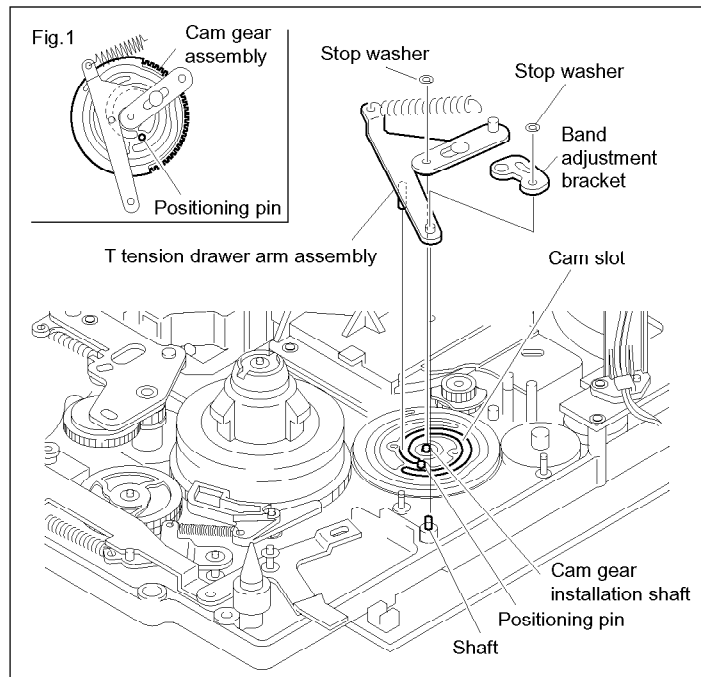
Be careful not to contact and damage the reflective seal surface.

- (4) Apply a light coating of grease to the outer surface of the cam gear assembly and inside of the cam slot as shown in the figure.
- (5) Attach the cam gear assembly while lining up the mark of the cam gear assembly with the mark of the midway gear.



8. T tension drawer arm assembly reinstallation

- (1) Fit the T tension drawer arm assembly onto the cam gear installation shaft, cam slot, and pin of chassis. And then secure the T tension drawer arm assembly using a new stop washer as shown in the Fig-1.
- (2) Reattach the band adjustment plate using a new stop washer.



9. Release arm assembly reinstallation

Align the hole and shafts a, b, and c of the release arm assembly with the pin, outer slot of cam gear, longitudinal hole of the eject link assembly, and the longitudinal hole of the band adjustment plate. And then, secure the release arm assembly with a stop washer.

Note

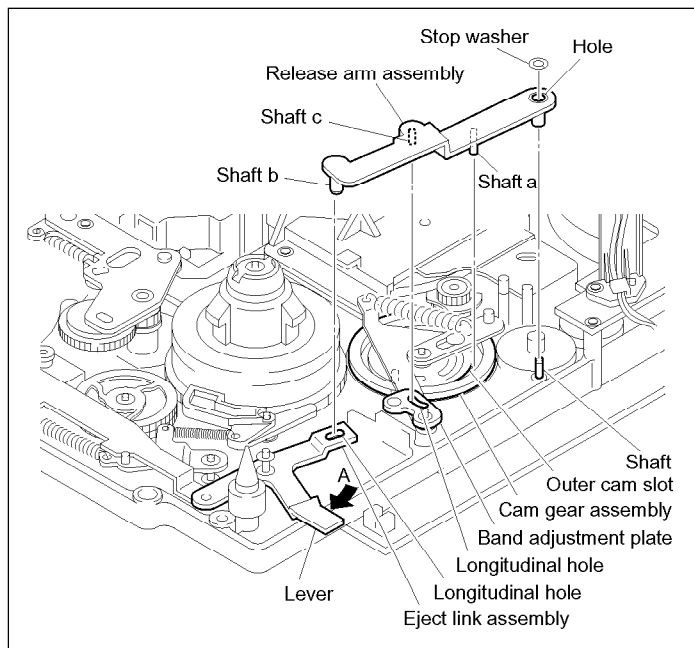
Pull the lever in the direction of the arrow A to align and insert the shaft b into the longitudinal hole of the eject link assembly.

10. Tension regulator band reinstallation

Secure the tension regulator band using a new stop washer. (Refer to Section 5-9.)

11. T tension regulator arm assembly reinstallation

Secure the T tension regulator arm assembly using a new stop washer. (Refer to Section 5-9.)



12. Parallel pin removal

Remove the parallel pin from the S cam gear.

Adjustment after replacement

13. Tape running check

(Refer to Section 7-4.)

14. REV back tension check

(Refer to section 7-3-2.)

6-13. Intermittent Gear Replacement

Outline

Replacement

Threading link assembly removal
Cam gear assembly removal
Intermittent gear replacement
Cam gear assembly reinstallation
Threading link assembly reinstallation

Check after replacement

Tape running check
REV back tension check

Precaution

The following new stop washer is required when replacing the intermittent gear.
Stop washer : 3-559-408-11

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Stop washer fastening tool : J-6323-530-A
- Parallel pin (d = 2.0 mm) : 3-703-358-04
- Cleaning cloth (15 × 15) : 3-184-527-01
- Cleaning fluid : 9-919-573-01
- Oil : 7-661-018-18
- Grease (PG-662) : 7-651-000-59
- Tweezers

Removal

1. Threading link assembly removal

Remove the threading link assembly.
(Refer to Section 6-5.)

2. Cam gear assembly removal

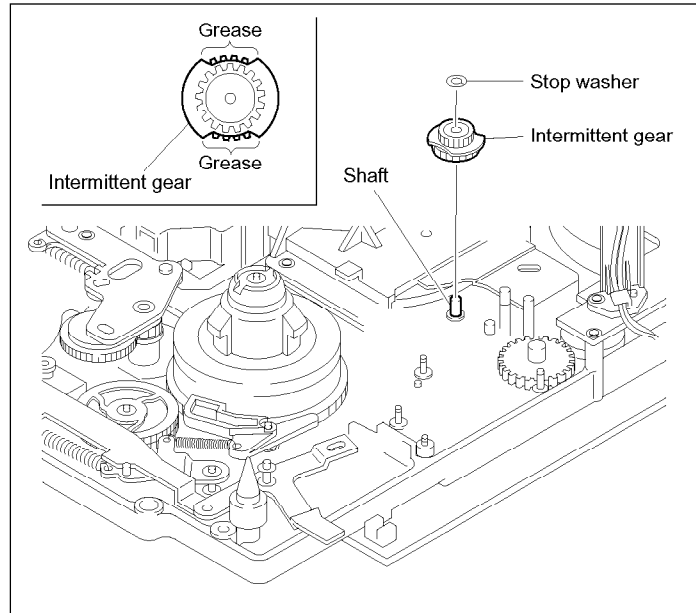
Remove the cam gear assembly.
(Refer to Section 6-12.)

Note

Make either of the cam gear assembly and the tooth of the midway gear which are meshed each other, using tweezers.

3. Intermittent gear replacement

- (1) Remove the stop washer to remove the intermittent gear.
- (2) Apply one-quarter of a drop of oil to the shaft of the intermittent gear.
- (3) Apply a grain in the size of 3 mm dia. to each of the two points on the dented portions of the new intermittent gear.
- (4) Attach the intermittent gear in the direction shown in the figure, and secure it using a new stop washer.

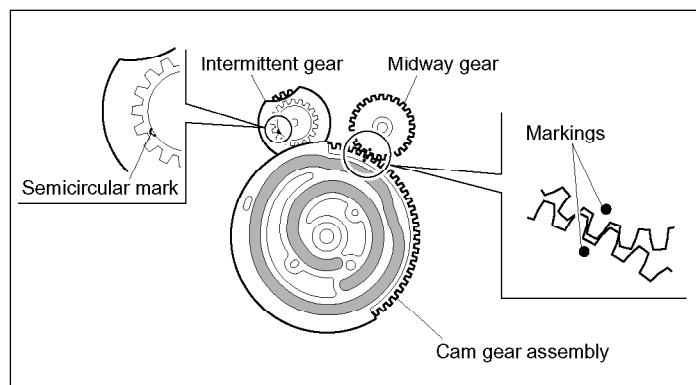


4. Cam gear assembly reinstallation

Reattach the cam gear assembly.
(Refer to Section 6-12.)
Reattach the cam gear while aligning the cam gear assembly to the dented portion of the intermittent gear.

5. Threading link assembly reinstallation

Reattach the threading link assembly.
(Refer to Section 6-5.)



Adjustment after replacement

6. Tape running check

(Refer to Section 7-4.)

7. REV back tension check

(Refer to Section 7-3-2.)

6-14. AT Head Replacement

Outline

Replacement

VH cleaner assembly removal
 AT head assembly removal
 AT head replacement
 AT head assembly reinstallation
 VH cleaner assembly reinstallation

Adjustment after replacement

Tape running adjustment
 Video tracking adjustment
 AT head height adjustment
 CTL head position adjustment
 AT head position adjustment
 Electriccal adjustment after AT head replacement

Precautions

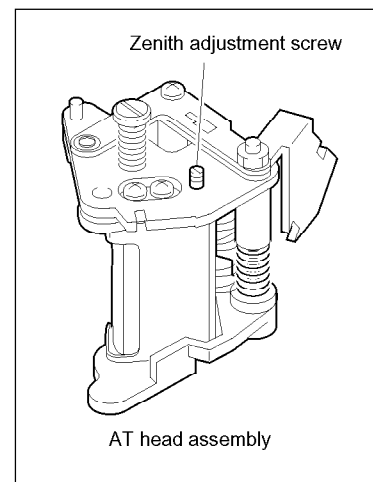
- Never tighten or loosen the zenith adjustment screw during the AT head replacement.
- The following harness clamp is required when replacing the AT head.
 Harness clamp : 3-837-356-02

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

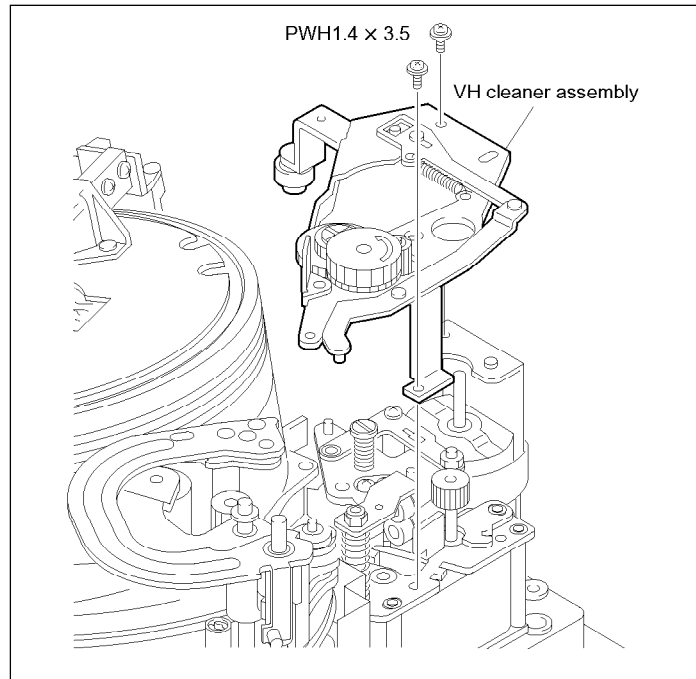
- Torque screwdriver bit's (for M1.4) : J-6325-110-A
- Torque screwdriver bit's (for M2) : J-6325-380-A
- Torque screwdriver (for 3 kg) : J-6325-400-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning liquid : 9-919-573-01



Replacement

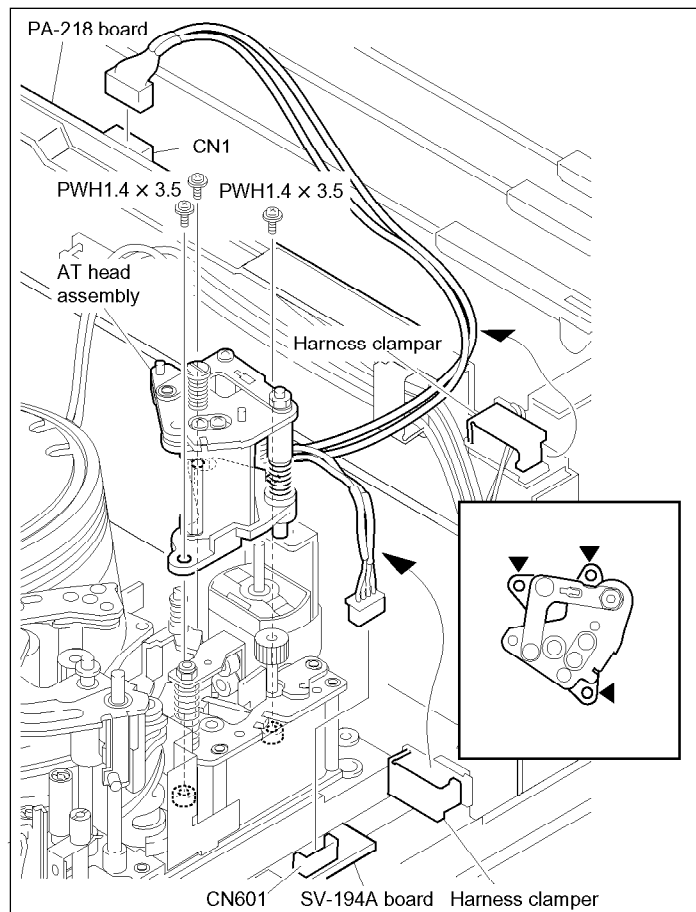
1. VH cleaner assembly removal

Remove the two screws, and then remove the VH cleaner assembly.



2. AT head assembly removal

- (1) Unfasten the AT head harness from the harness clamp.
- (2) Disconnect the harness connector of the AT head from connector CN601 on the SV-194A board.
- (3) Disconnect the harness connector of the AT head from connector CN1 on the PA-218 board.
- (4) Remove the three screws, then remove the AT head assembly.

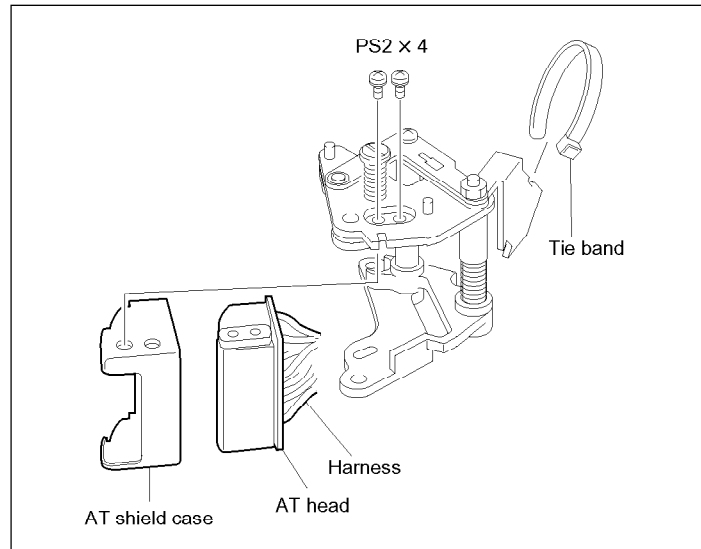


3. AT head replacement

- (1) Cut the tie band.
- (2) Remove the two screws shown in the figure, and then remove the AT head and AT shield case.
- (3) Unsolder the harness at the back of the AT head.

Reference

This harness is used again.

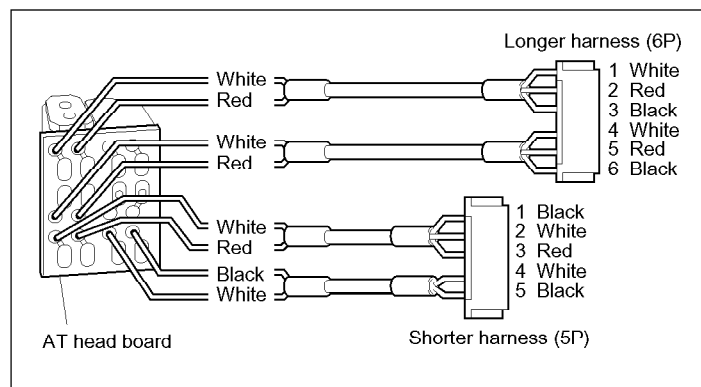


- (4) Solder the harness removed in step (2) to the printed circuit board of a new AT head as shown in the figure.

Note

Be sure to solder the harness in a correct positions.

- (5) Put the AT shield plate on the new AT head.
- (6) Attach the AT head with the two screws.
Tightening torque : $20 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{2.0 \text{ kgf}\cdot\text{cm}\}$
- (7) Fasten the AT head harnesses to the A/T base using a new harness clamp.



Adjustment after replacement**6. Tape running adjustment**

(Refer to Section 7-4.)

7. Video tracking adjustment

(Refer to Section 7-5.)

8. AT head height adjustment

(Refer to Section 7-9.)

9. CTL head position adjustment

(Refer to Section 7-7.)

10. AT head position adjustment

(Refer to Section 7-8.)

11. Electrical adjustment after AT head replacement

(Refer to Sections 3-2 and 9-6.)

6-15. CTL Head Replacement

Outline

Replacement

CTL/FE head assembly removal
CTL head replacement
CTL/FE head assembly reinstallation
CTL/FE head cleaning

Adjustment after replacement

Tape running check
Video tracking adjustment
CTL head height adjustment
CTL head position adjustment
AT head position adjustment

CAUTION

Never contact the tape cleaner on the CTL/FE head block with bare hands.
The tape cleaner has a sharp edge. Pay careful attention to it when replacing or adjusting the CTL head.

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)

Tools

- Torque screwdriver bit (for M1.4) : J-6325-110-A
- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver's (3 kg•cm) : J-6325-400-A
- Cleaning cloth (15 × 15) : 3-184-527-01
- Cleaning fluid : 9-919-573-01

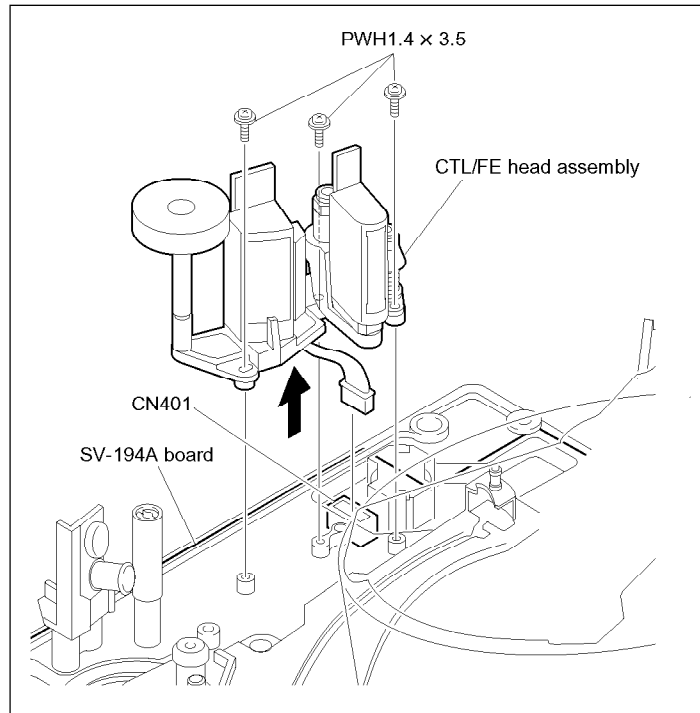
Removal

1. CTL/FE head assembly removal

- (1) Disconnect the harness from the connector CN401 on the SV-194A board.
- (2) Remove the three screws, and then remove the CTL/FE head assembly from the mechanical deck.

Note

Be careful not to damage the video heads, drum, full erase head, tape guide, and other parts with a screwdriver.



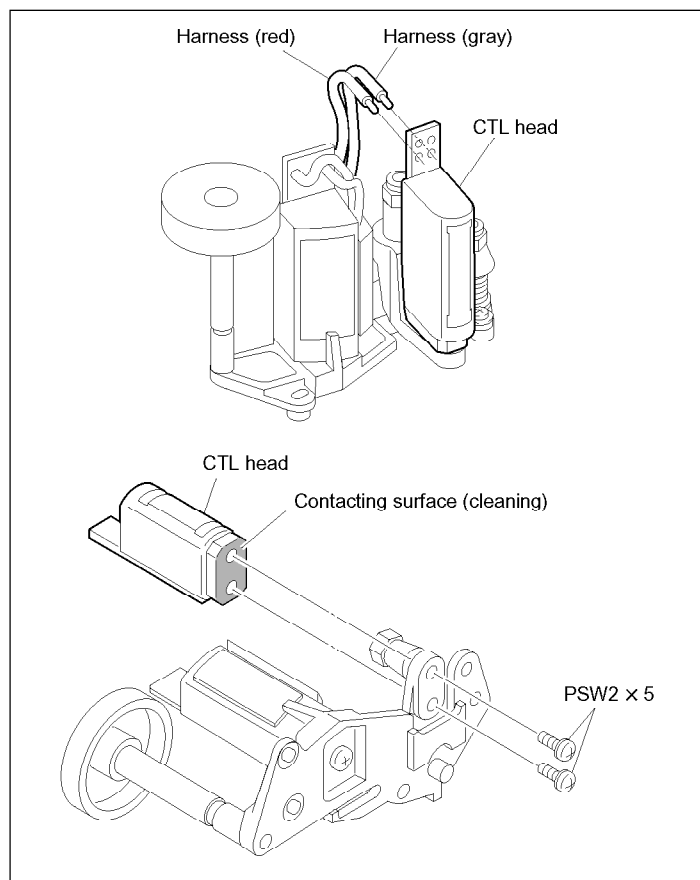
2. CTL head replacement

- (1) Unsolder the two wires soldered to the head.
- (2) Remove the two screws at the back of the CTL head, and then remove the CTL head.
- (3) Clean the contacting surface, and attach a new CTL head with the two screws.
- (4) Solder the two wires to the printed circuit board of the CTL head.

(Refer to step (1) of procedure 2.)

Note

Never make a mistake in the color and place of the wire to be soldered. If so, a serious trouble may occur in the compatibility of the tape.



Installation

3. CTL/FE head assembly reinstallation

- (1) Align the positioning pin of the CTL/FE head assembly with the reference hole of the mechanical deck, and then fix it with the three screws.

Tightening torque : $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$

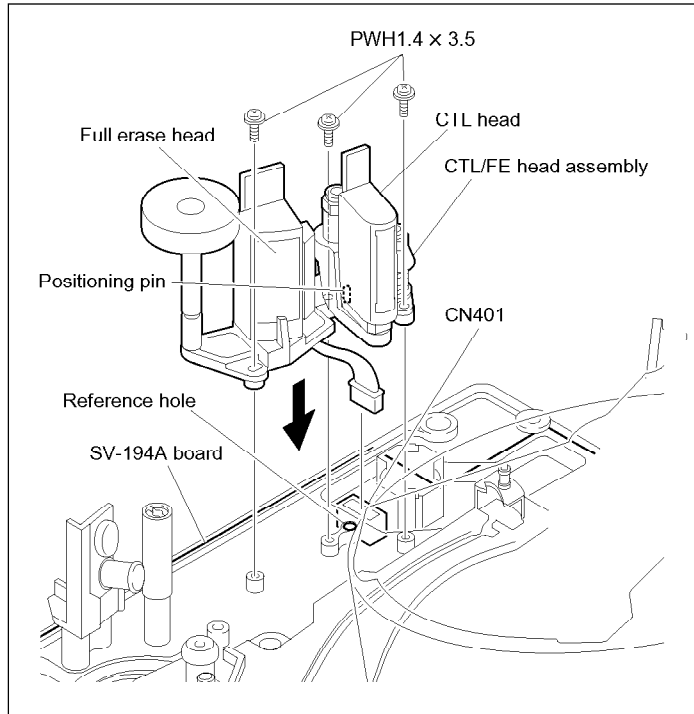
- (2) Reconnect the harness connector of the CTL/FE head assembly to the connector CN401 on the SV-194A board.

4. CTL/FE head cleaning

Clean the CTL head, full erase head and tape cleaner with cleaning cloth moistened with cleaning fluid.

Note

After cleaning, wipe with dry cloth.



Adjustment after replacement

5. Tape running check

(Refer to Section 7-4.)

6. Video tracking adjustment

(Refer to Section 7-5.)

7. CTL head height adjustment

(Refer to Section 7-6.)

8. CTL head position adjustment

(Refer to Section 7-7.)

9. AT head position adjustment

(Refer to Section 7-8.)

6-16. Fan Motors Replacement

WARNING

If the fan motor is out of order, the inside temperature of the unit will rise. Touching the inside in this state may cause a burn. When replacing the fan motor, perform the replacement after powering off until the inside cools off.

6-16-1. Fan Motor (Connector Panel) Replacement

Outline

Replacement

Connector panel opening
Fan motor removal
Fan motor installation
Connector panel reinstallation
Operation check

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M2) : J-6325-380-A

Replacement

1. Connector panel opening

Open the connector panel.
(Refer to Section 1-4-4.)

2. Fan motor removal

- (1) Remove the two screws, and then remove the fan bracket.
- (2) Disconnect the harness connector of the fan motor from the CN3 on the CP-354 board, and then remove the fan motor.

3. Fan motor installation

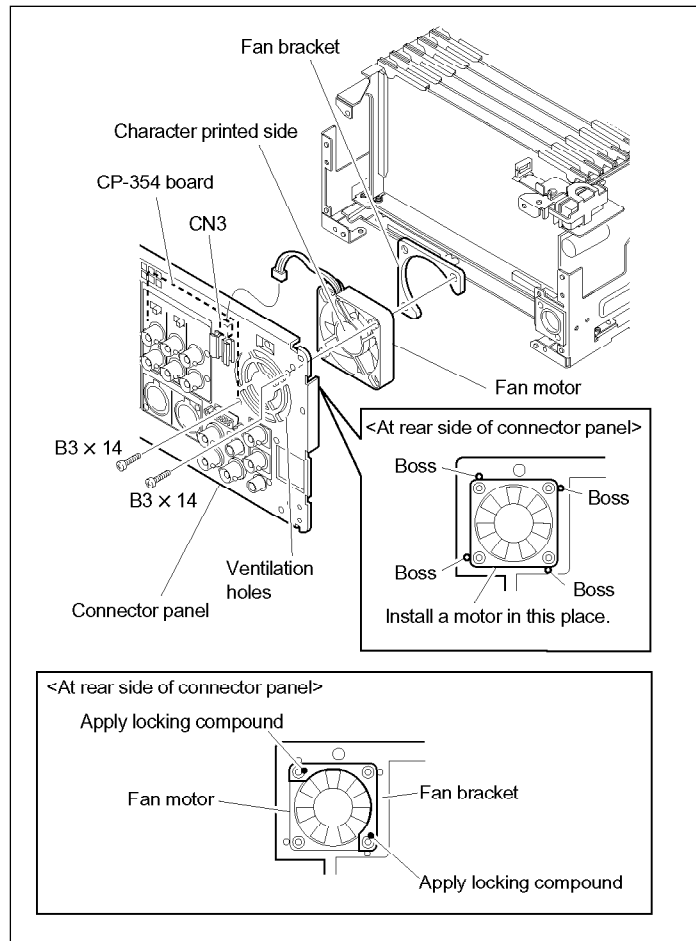
- (1) Wipe off dust on the ventilation holes with a soft cloth or equivalent.
- (2) Place a new fan motor in the direction shown in the figure on the connector panel so that the outer surfaces of the fan motor contact with the four bosses on the panel.
- (3) Fit the motor bracket to the fan motor as shown in the figure, and then tighten them with the two screws.
- (4) Apply locking compound to the top of the screws and fan bracket as shown in the figure, after installation.
- (5) Connect the harness connector of the fan motor to CN3 on the CP-354 board.

4. Connector panel reinstallation

Reattach the connector panel to the unit.
(Refer to Section 1-4-4.)

5. Operation check

- (1) Turn on the power.
- (2) Check that the fan motor rotates, and blows off the air from the ventilation hole of the unit.



6-16-2. Fan Motor (right side) Replacement

Outline

Replacement

Fan motor removal

Fan motor installation

Operation check

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)

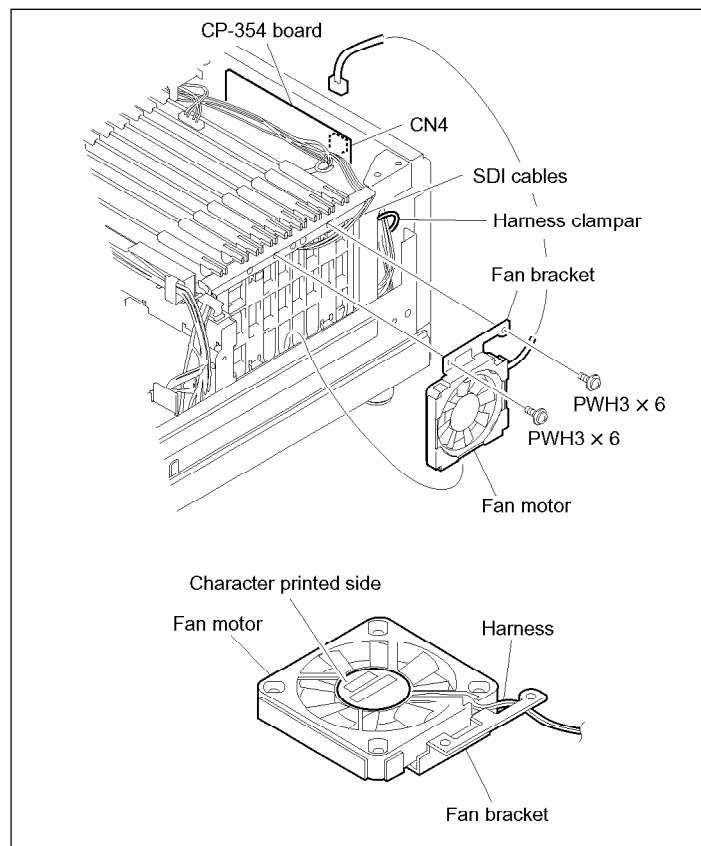
Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg.cm) : J-6325-400-A

Removal

1. Fan motor removal

- (1) Disconnect the harness connector of the fan motor from the connector (CN4) at the top edge of the CP-354 board.
- (2) Unfasten the harness clasper, and then extract the fan motor harness.
- (3) Remove the two screws at the top of the fan motor, and then remove the fan bracket with fan motor.



2. Fan motor installation

- (1) Place a new fan motor in the direction shown in the figure on the fan bracket.

Note

Be sure to install the fan motor so that the character-printed side and harness are placed in a correct position as shown in the figure.

- (2) Insert the lower portion of the fan bracket inside of the chassis, and then fasten it with the two screws.

Note

When attaching the fan bracket, be careful not to pinch the three SDI cables between the fan bracket and chassis.

- (3) Connect the harness connector of the fan motor to the connector (CN4) on the CP-354 board.
- (4) Clamp the SDI cables and fan motor harness with harness clamper as shown in the figure.

3. Operation check

- (1) Turn on the power.
- (2) Check to see that the fan motor rotates, and draw in the air inside of the unit.

6-17. Board Replacement

6-17-1. SV-194A Board Replacement

Outline

Replacement

DM-114/114P board removal
Harness connector disconnection
SV-194A board removal
SV-194A board installation
Harness connectors reconnection
DM-114/114P board reinstallation

Adjustment after replacement

Servo system adjustment

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A

Replacement

1. DM-114/114P board removal

Remove the DM-114/114P board.
(Refer to Section 1-6-2.)

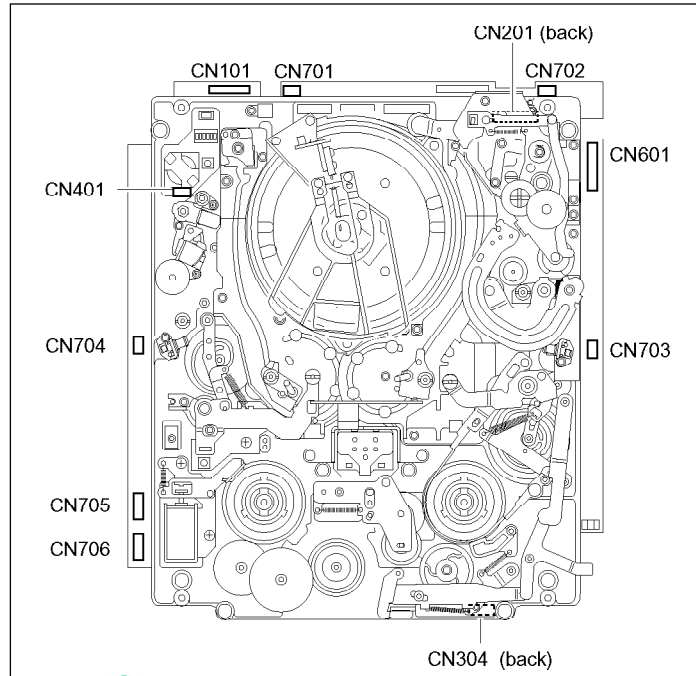
2. Harness connector disconnection

Disconnect the following harness connectors from the SV-194A board.

- CN101 (from drum)
- CN701 (from dew condensation sensor)
- CN702 (from threading motor)
- CN601 (from AT head)
- CN703 (from tape top sensor)
- CN706 (from S brake solenoid)
- CN705 (from tension sensor)
- CN704 (from tape end sensor)
- CN401 (from full erase/CTL head)

At the back of SV-194A board

- CN201 (from capstan motor)
- CN304 (from S reel motor)
- CN301, CN302, CN303, and CN901
(from MB-757A board)



3. SV-194A board removal

Remove the six screws to remove the SV-194A board.

4. SV-194A board installation

Attach a new SV-194A board in reverse order of procedure 2 and 3.

5. Harness connectors reconnection

Reconnect the harness connectors disconnected in procedure 2 to the DM-114/114P board.

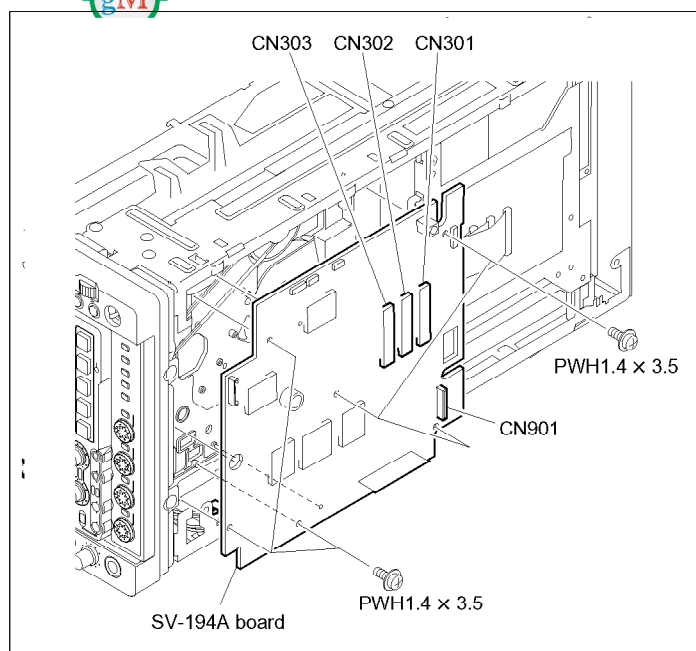
6. DM-114/114P board reinstallation

Reattach the DM-114/114P board.
(Refer to Section 1-6-2.)

Adjustment after replacement

7. Servo system adjustment

(Refer to Sections 3-2-6 and 9-3-1.)



6-17-2. RE-150 Board Replacement

Outline

Replacement

RE-150 board removal

RE-150 board installation

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg·cm) : J-6325-400-A

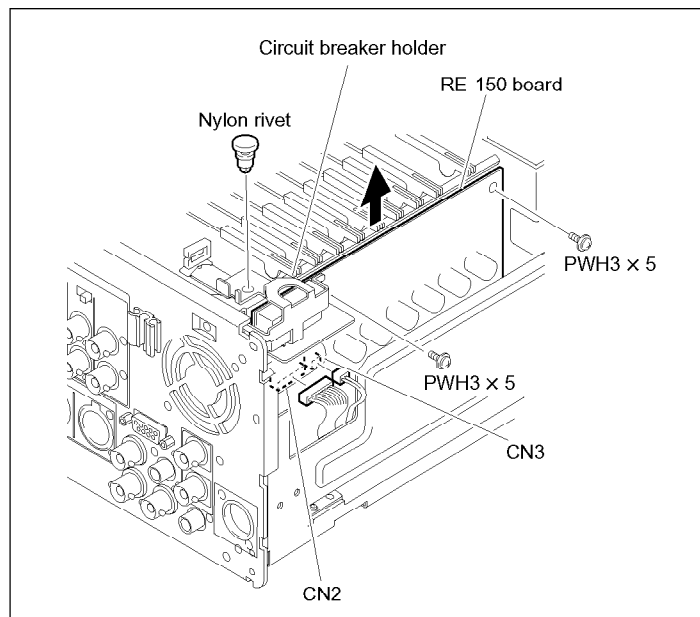
Replacement

1. RE-150 board removal

- (1) Disconnect the harnesses from the two connectors (CN2 and CN3) on the RE-150 board.
- (2) Remove the nylon rivet from the circuit breaker holder.
- (3) Remove one screw, and then remove the circuit breaker holder from the unit.
- (4) Remove one screw at the top right position of the RE-150 board.
- (5) Pull up the RE-150 board and disconnect it from the MB-757A board.

2. RE-150 board installation

- (1) Slide in a new RE-150 board, and then push it to connect it to the connector on the MB-757A board.
- (2) Tighten the screw at the top right position of the RE-150 board.
- (3) Assemble the circuit breaker holder, and then tighten it with one screw.
- (4) Fasten the circuit breaker holder with the nylon rivet.
- (5) Connect the harness connectors to the connectors (CN2 and CN3) on the RE-150 board.



6-17-3. SR-65 Board Replacement

Outline

Replacement

S tension regulator arm assembly removal
SR-65 board replacement
S tension regulator arm assembly reinstallation
Tension regulator guide cleaning

Adjustment after replacement

S tension regulator offset/gain adjustment
Tape running adjustment

Preparations

1. Put the unit into the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)

Tools

- Torque screwdriver (3 kg•cm) : J-6325-400-A
- Torque screwdriver's bit (for M1.4) : J-6325-110-A
- Torque screwdriver's bit (for M2) : J-6325-380-A
- Cleaning cloth (15 cm × 15 cm) : 3-184-527-01
- Cleaning fluid : 9-919-573-01

Replacement

1. S tension regulator arm assembly removal

Remove the S tension regulator arm assembly.
(Refer to Section 6-9.)

2. SR-65 board replacement

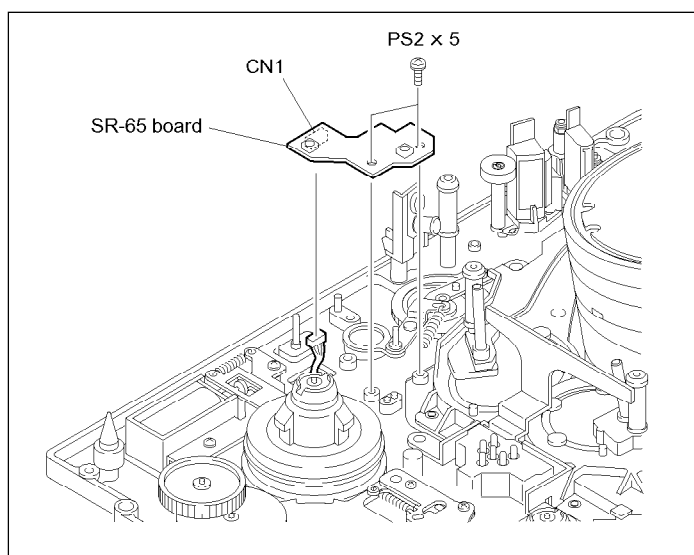
Disconnect the harness from CN1 and remove the two screws, and then replace the SR-65 board with a new one.

3. S tension regulator arm assembly reinstallation

Reattach the S tension regulator arm assembly.
(Refer to Section 6-9.)

4. Tension regulator guide cleaning

- (1) Clean the guide roller with cleaning cloth moistened with cleaning fluid.
- (2) After cleaning, wipe with dry cloth.



Adjustment after replacement

**5. S tension regulator offset/gain
adjustment**

(Refer to Section 7-2.)

6. Tape running adjustment

(Refer to Section 7-4.)

6-17-4. DC-97 Board (DC IN connector) Replacement

Outline

Replacement

DC-97 board removal

DC-97 board installation

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver's (3 kg•cm) : J-6325-400-A

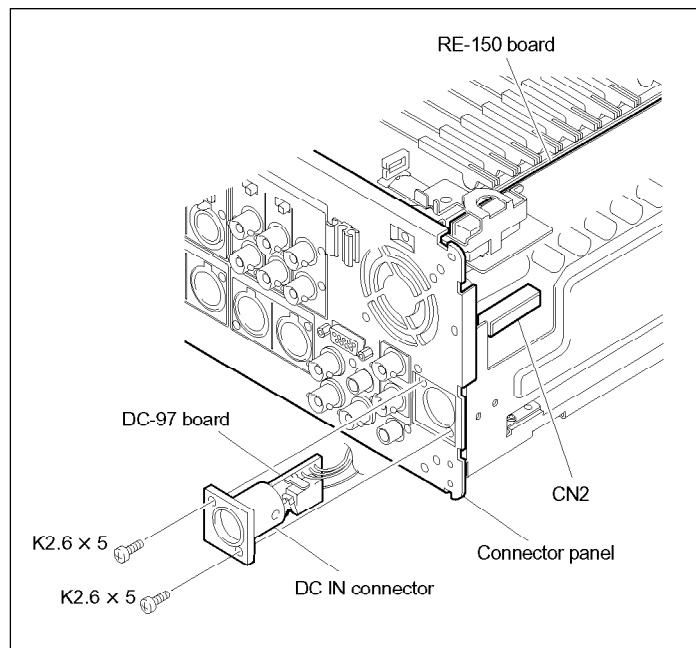
Replacement

1. DC-97 board removal

- (1) Disconnect the harness connector from the connector (CN2) on the RE-150 board.
- (2) Remove the two screws, and remove the DC IN connector with DC-97 board from the unit.

2. DC-97 board installation

- (1) Put a new DC IN connector with the DC-97 board into the round hole of the connector panel with the board placed on its left side, and fasten it with the two screws removed in procedure 1.
- (2) Connect the harness connector from the DC IN connector to the connector (CN2) on the RE-150 board.



6-17-5. HP-100 Board Replacement

Outline

Replacement

Front panel removal
Control knob removal
HP-100 board replacement
Front panel reinstallation
Control knob reinstallation

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A

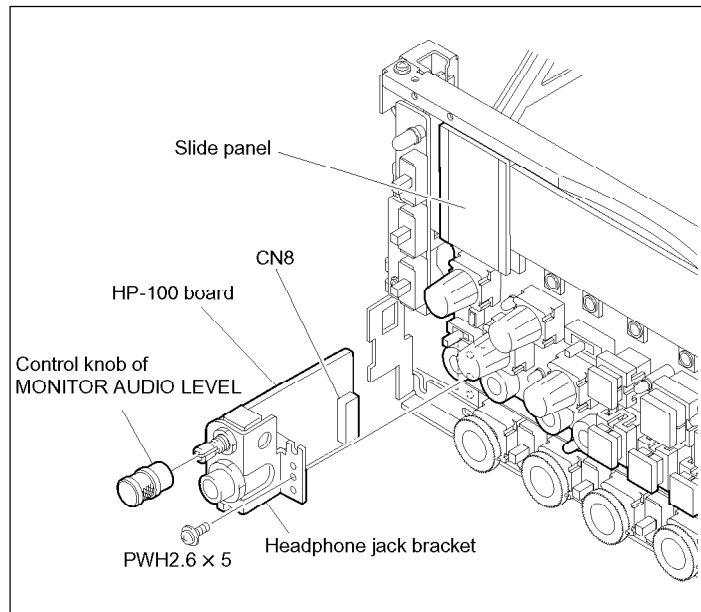
Replacement

1. Front panel removal

Remove the front panel. (Refer to Section 1-4-3.)

2. Control knob removal

Remove the control knob of the MONITOR AUDIO LEVEL.



3. HP-100 board replacement

- (1) Move the slide panel to upward.
- (2) Open the DM-114/114P board.
(Refer to Section 1-6-2.)
- (3) Disconnect the connector (CN8) on the HP-100 board.
- (4) Remove one screw of the headphone jack bracket at the front side of the unit, and then remove the HP-100 board from the unit.
- (5) Replace the HP-100 board with a new one.
- (6) Tighten the headphone jack bracket with one screw.
- (7) Connect the harness connector to the connector (CN8) on the HP-100 board.
- (8) Reattach the DM-114/114P board.
(Refer to Section 1-6-2.)

4. Front panel reinstallation

Reattach the front panel. (Refer to Section 1-4-3.)

5. Control knob reinstallation

Reattach the control knob of the MONITOR AUDIO LEVEL.

Note

When turning the control knob fully clockwise and counterclockwise, check that the white line on the control knob is positioned symmetrical.

6-17-6. SE-529 Board Replacement

Outline

Replacement

SE-529 board replacement

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A

Replacement

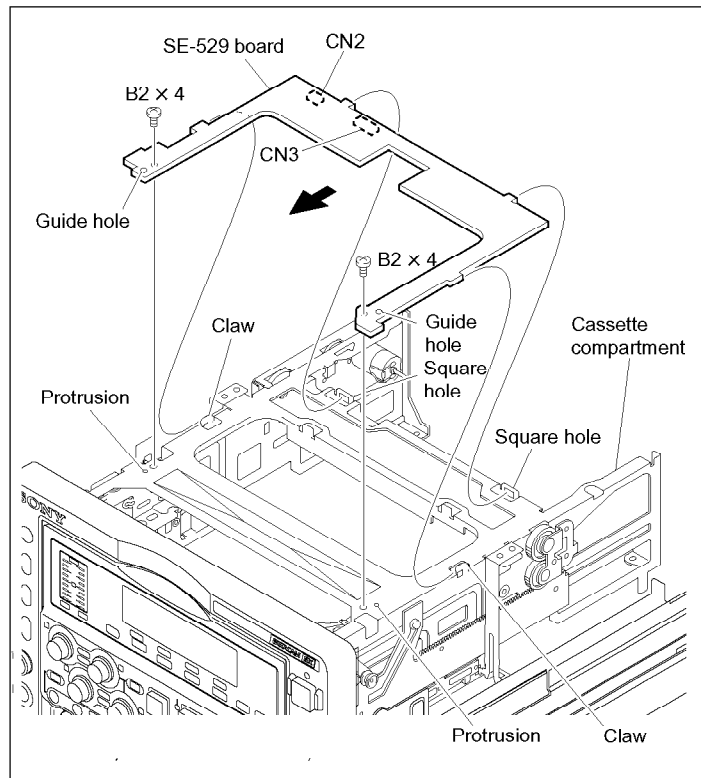
1. SE-529 board replacement

- (1) Disconnect the harness connectors from the connector (CN3) on the SE-529 board.
- (2) Remove the two screws and move the SE-529 board in the direction of the arrow, and then disconnect the harness from the connector (CN2) to remove the SE-529 board.
- (3) Attach a new SE-529 board to the cassette compartment.

Note

- Ensure that the protrusions of the cassette compartment chassis are surely inserted into the guide holes near the fixing screws on the SE-529 board.
- Ensure that the SE-529 board is surely installed into the two claws and square holes on the cassette compartment chassis.

- (4) Attach the SE-529 board with the two screws.
- (5) Connect the harness connectors to the connectors (CN2 and CN3) on the SE-529 board.



6-18. Board Replacement Inside the Front Panel Assembly

6-18-1. VFD Assembly Replacement

Outline

Replacement

Slide panel removal
Control knob removal
VFD assembly replacement
Slide switch knob reinstallation
Control knob reinstallation
Slide panel reinstallation

Precaution

If the VFD assembly is replaced, the stored setting data of the sub menu and the lastly pressed button data are lost.
After replacement, when turning on the power once, these data are initialized to the factory setting data automatically. If necessary, reset the sub menu.
(Refer to the Operation Manual.)

Preparation

1. Turn off the power.

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A

Replacement

1. Slide panel removal

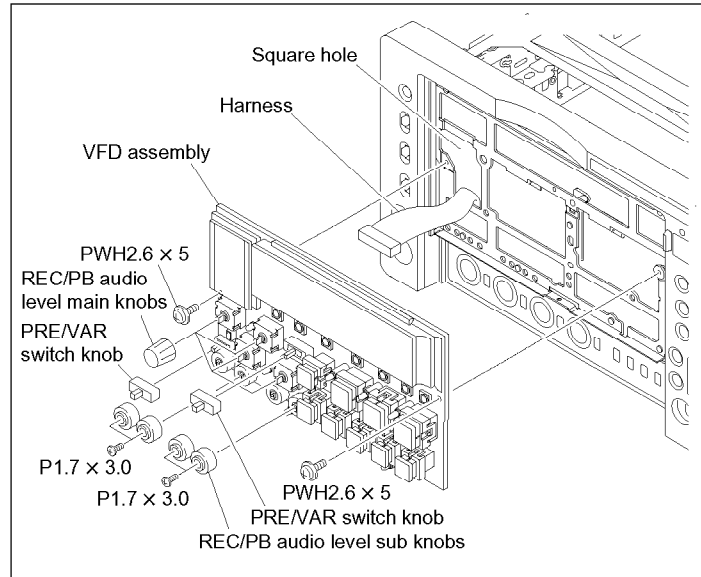
Remove the slide panel. (Refer to Section 1-4-3.)

2. Control knob removal

- (1) Remove the four control knobs of the REC/PB AUDIO LEVEL main.
- (2) Remove the two slide switch knobs of the PRE/VAR switch.
- (3) Remove the four control knobs of the REC/PB AUDIO LEVEL sub.

3. VFD assembly replacement

- (1) Remove the two screws to remove the VFD assembly.
- (2) Open the coating lead pins at the back side of the VFD assembly, and unfasten the harness.
- (3) Disconnect the harness connector from the connector (CN1).
- (4) Connect the harness connector to a new VFD assembly, and hold the harness with coating lead pins.
- (5) Move the slide chassis downward.
- (6) Pass the harness connected to the VFD assembly through the square hole of the slide chassis as shown in the figure, and attach the VFD assembly to the slide chassis with the two screws.



4. Slide switch knob reinstallation

Reattach the two PRE/VAR slide switch knobs removed in step 2 with the yellow tab is positioned to the left to the switch on the new VFD assembly.

5. Control knob reinstallation

Reattach the four each knobs of the REC/PB AUDIO LEVEL main and REC/PB AUDIO LEVEL sub to the VFD assembly.

6. Slide panel reinstallation

Reattach the slide panel to the chassis.
(Refer to Section 1-4-3.)

6-18-2. SW-21 Board Replacement

Outline

Replacement

Front panel removal
VFD assembly removal
SW-21 board replacement
VFD assembly reinstallation
Front panel reinstallation

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A

Replacement

1. Front panel removal

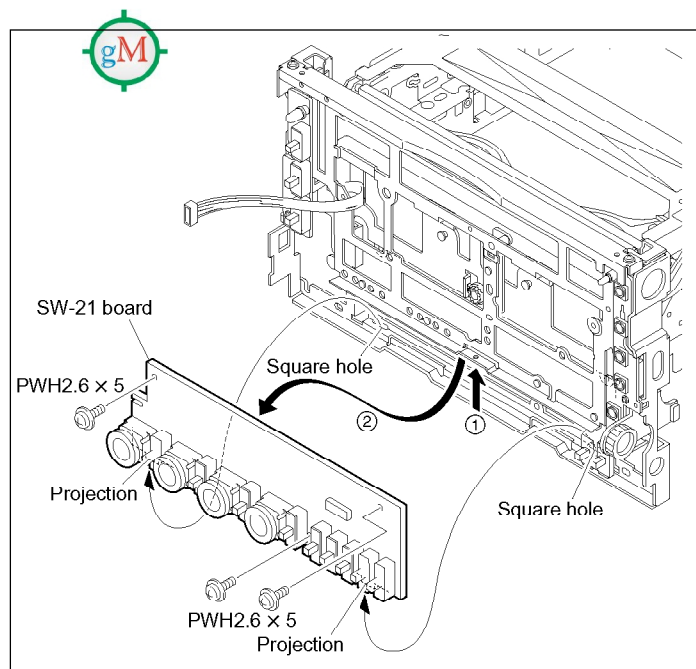
Remove the front panel. (Refer to Section 1-4-3.)

2. VFD assembly removal

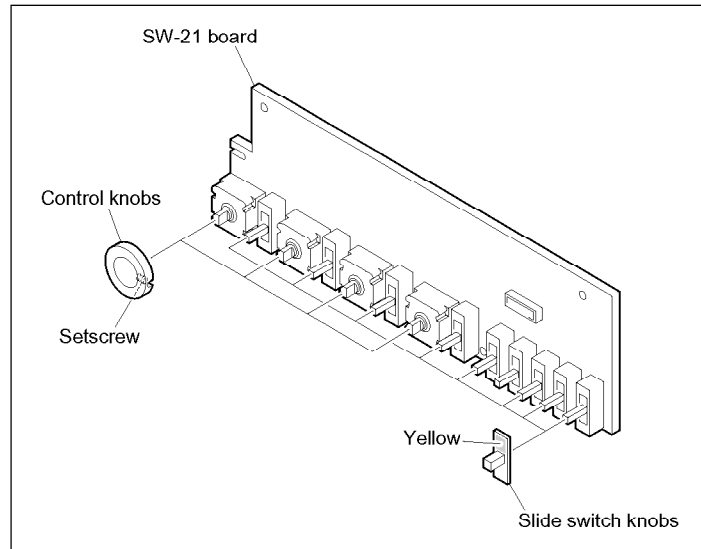
Remove the VFD assembly.
(Refer to Section 6-18-1.)

3. SW-21 board replacement

- (1) Open the DM-114/114P board.
(Refer to Section 1-6-2.)
- (2) Open the four coating lead pins at the back-side of the SW-21 board, and unfasten the harness.
- (3) Disconnect the five connectors (CN3 through CN6 and CN100) connected to the SW-21 board.
- (4) Remove the three screws from the front side of the unit. Move the SW-21 board in the direction of the arrows ① and ② to remove it.



- (5) Remove the four control knobs after loosening the setscrew using hexagon wrench, and remove the nine slide switch knobs from the removed board.
- (6) Attach the nine slide switch knobs with the yellow tub is positioned to upward, and the four control knobs using hexagon wrench to the new SW-21 board.
- (7) Insert the two projections at the lower side of the board into the square holes of the chassis, and insert the bosses of the chassis into the holes on both sides of the board, and then fasten it with the two screws.
- (8) Connect the five harness connectors to the SW-21 board.
- (9) Clamp the harness with the four coating lead pins.
- (10) Reattach the DM-114/114P board.
(Refer to Section 1-6-2.)



4. VFD assembly reinstallation

Reattach the VFD assembly.

(Refer to Section 6-18-1.)

5. Front panel reinstallation

Reattach the front panel. (Refer to Section 1-4-3.)

6-18-3. SW-22 Board Replacement

Outline

Replacement

Front panel removal
SW-22 board replacement
Front panel reinstallation

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A

Replacement

1. Front panel removal

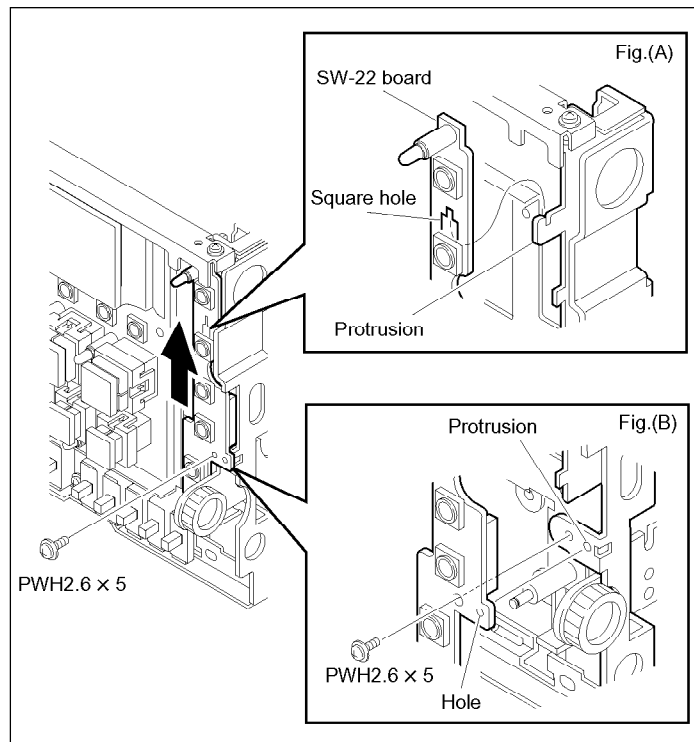
Remove the front panel. (Refer to Section 1-4-3.)

2. SW-22 board replacement

- (1) After removing one screw, move the SW-22 board in the direction of the arrow to release the lock at the square hole portion as shown in the Fig. (A).
- (2) Disconnect the harness connector from the SW-22 board, and remove the SW-22 board from the unit.
- (3) Connect the harness connector to a new SW-22 board.
- (4) Install the protrusion of the chassis into the square hole of the SW-22 board, and move the SW-22 board in the opposite direction of the arrow to lock as shown in the Fig. (A).
- (5) Secure the SW-22 board with one screw.

Note

Make sure that the protrusion of the chassis is surely inserted into the hole of the board.
(See Fig. (B).)



3. Front panel reinstallation

Reattach the front panel. (Refer to Section 1-4-3.)

6-18-4. SW-23 Board Replacement

Outline

Replacement

Front panel removal

SW-23 board replacement

Front panel reinstallation

Preparations

1. Turn off the power
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver (3 kg•cm): J-6325-400-A
- Torque screwdriver bit (for M2): J-6325-380-A

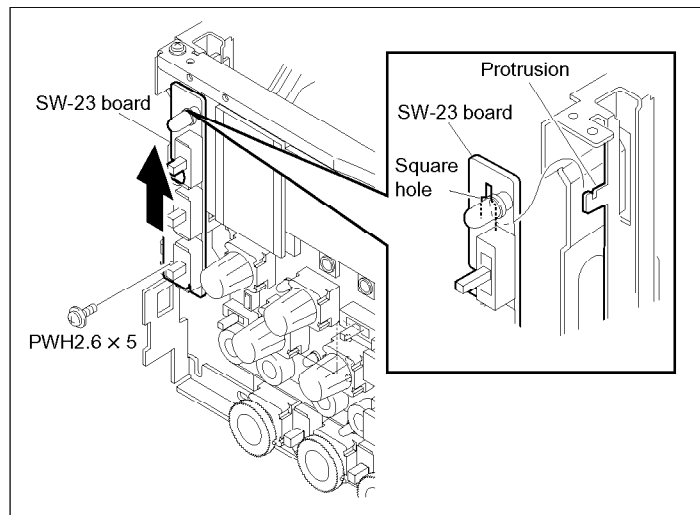
Replacement

1. Front panel removal

Remove the front panel. (Refer to Section 1-4-3.)

2. SW-23 board replacement

- (1) After removing one screw, move the SW-23 board in the direction of the arrow to release the lock at the square hole portion.
- (2) Disconnect the harness connector from the SW-23 board, and then remove the SW-23 board from the unit.
- (3) Remove the three slide switch knobs from the removed SW-23 board.
- (4) Connect the harness connector to a new SW-22 board.
- (5) Install the protrusion of the chassis into the square hole of the SW-23 board, and move the SW-23 board in the opposite direction of the arrow to lock.
- (6) Secure the SW-23 board with one screw.
- (7) Reattach the three slide switch knobs removed in step (3) with the yellow tab is positioned to upward to the switch on the SW-23 board.



3. Front panel reinstallation

Reattach the front panel. (Refer to Section 1-4-3.)

6-18-5. CT-209 Board (JOG dial) Replacement

Outline

Replacement

Front panel removal
CT-209 board replacement
Front panel reinstallation

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A

Replacement

1. Front panel removal

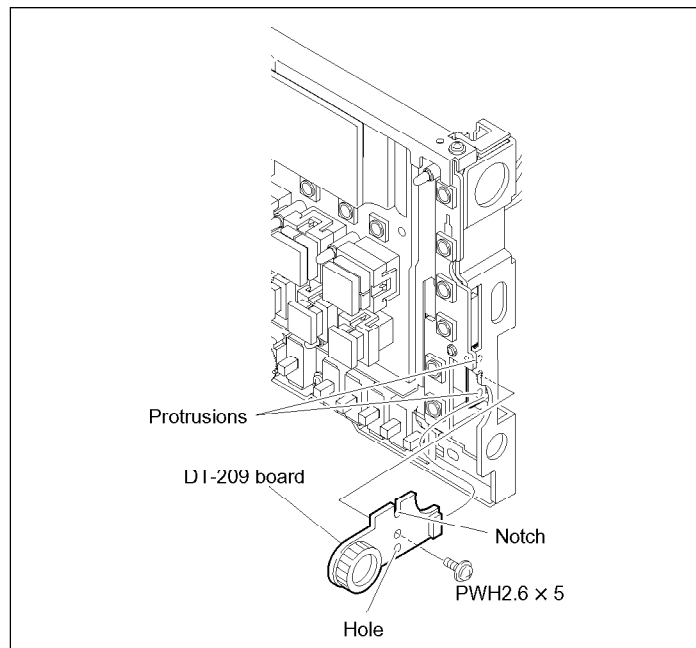
Remove the front panel. (Refer to Section 1-4-3.)

2. CT-209 board replacement

- (1) Open the DM-114/114P board.
(Refer to Section 1-6-2.)
- (2) Disconnect the harness connector from the connector on the CT-209 board.
- (3) Remove one screw to remove the CT-209 board from the unit.
- (4) Attach a new CT-209 board so that the two protrusions of the bracket are inserted into the hole and notch of the board, and fix it with one screw.
- (5) Connect the harness connector to the connector on the CT-209 board.
- (6) Reattach the DM-114/114P board.
(Refer to Section 1-6-2.)

3. Front panel reinstallation

Reattach the front panel. (Refer to Section 1-4-3.)



6-18-6. PSW-72 Board Replacement

Outline

Replacement

Front panel removal

PSW-72 board replacement

Front panel reinstallation

Preparations

1. Turn off the power.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the bottom plate. (Refer to Section 1-4-2.)

Tools

- Torque screwdriver's bit (for M2) : J-6325-380-A
- Torque screwdriver (3 kg•cm) : J-6325-400-A

Replacement

1. Front panel removal

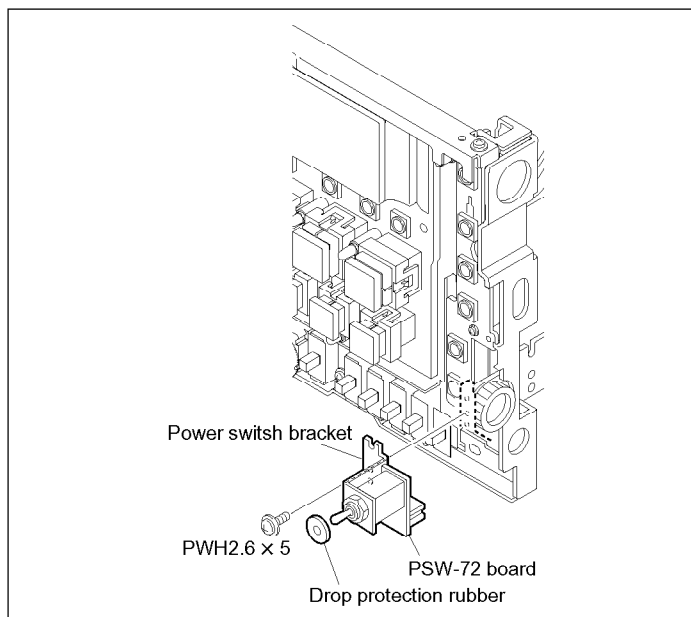
Remove the front panel. (Refer to Section 1-4-3.)

2. PSW-72 board replacement

- (1) Remove one screw, and then remove the power switch bracket with the PSW-72 board from the unit.
- (2) Remove the drop protection rubber from the power switch bracket.
- (3) Disconnect the harness connector from the connector on the PSW-72 board.
- (4) Connect the harness connector to the connector on the PSW-72 board.
- (5) Attach the drop protection rubber to the switch, and secure a new power switch bracket with the PSW-72 board with one screw.

3. Front panel reinstallation

Reattach the front panel. (Refer to Section 1-4-3.)



Section 7

Tape Path Alignment

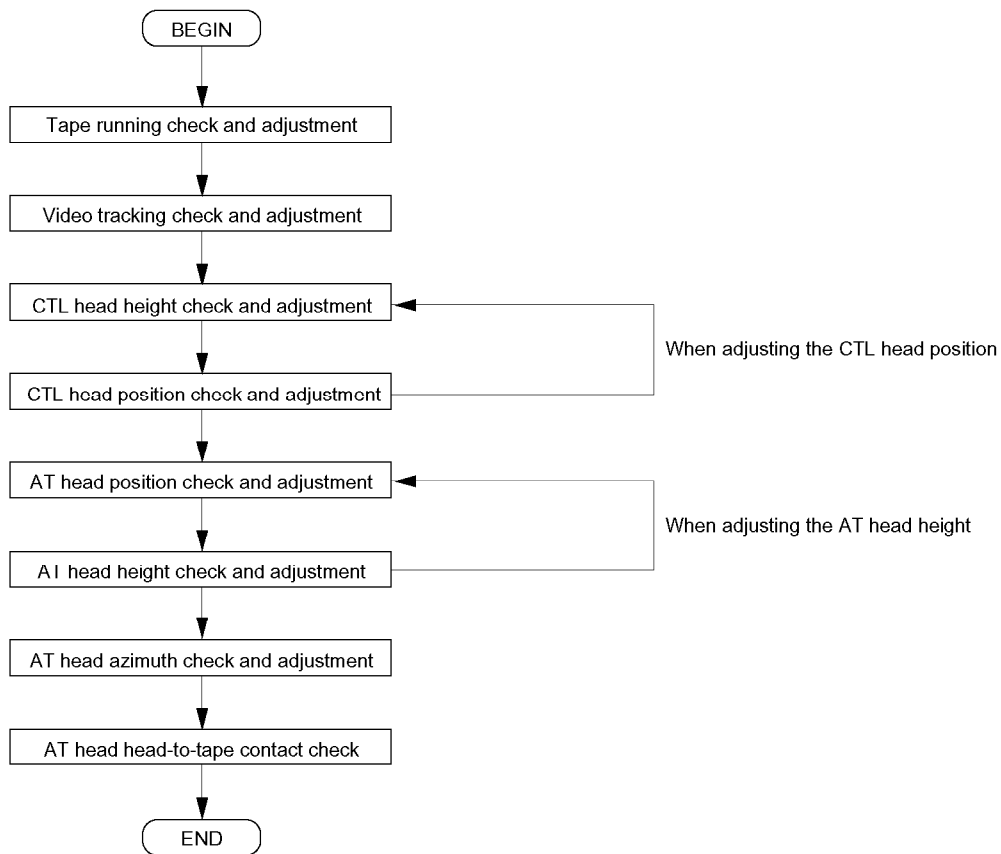
7-1. General Information for Tape Path Adjustment

This section describes the fundamental knowledge such as preparation and prior knowledge to perform the tape path system check and adjustment.

7-1-1. Alignment Flow Chart

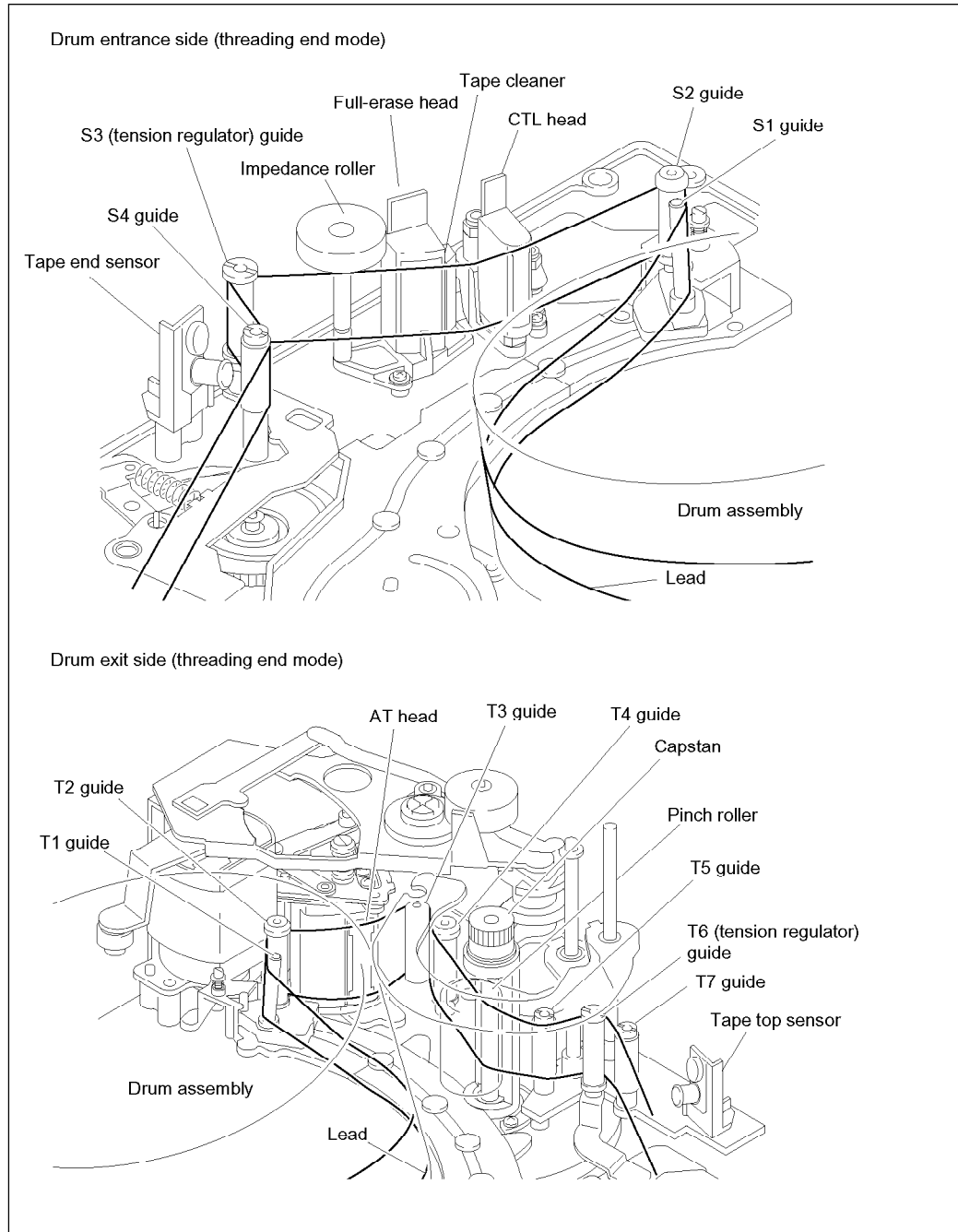
The checks and adjustments described in Section 7-4 through Section 7-11 are closely related to each other.

Perform the checks and adjustments referring to the following flow chart.



7-1-2. Parts Location of the Tape Running System

Following figure describes the names of each component part of the tape running system.



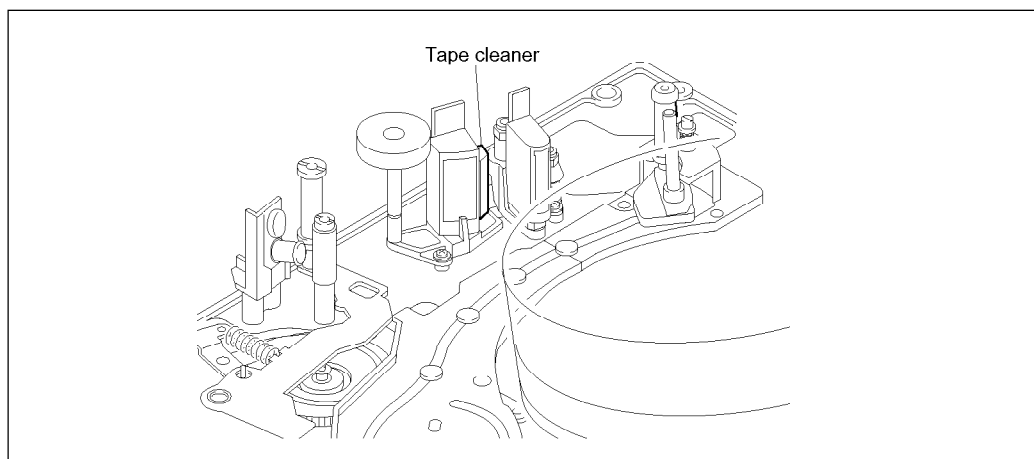
7-1-3. Tape cleaner

CAUTION

Never contact the tape cleaner placed between full erase head and CTL head with bare hand.

It is danger of cutting your finger because the tape cleaner has a sharp edge.

Pay careful attention when adjusting the CTL head and so on.



7-1-4. Tools and other equipment

Tools

• Tape guide adjustment driver (45) :	J-6322-420-A
• HN-257 mounted circuit board :	A-8317-304-A
• Inspection mirror :	J-6080-840-A
• Torque cassette (FWD back ten.) (MW-389) :	J-6323-890-A
• Parallel pin (d = 2.0 mm) :	3-703-358-04
• Torque screwdriver's bit (for M1.4) :	J-6325-110-A
• Nutdriver (s = 4.5 mm) :	7-700-751-01
• Torque screwdriver (3 kg•cm) :	J-6325-400-A
• Cleaning cloth (15 cm × 15 cm) :	3-184-527-01
• Cleaning liquid :	9-919-573-01
• Screw locking compound :	7-432-114-11
• Alignment tape, SR2-1 (for 525/60 system) :	8-960-075-11
• Alignment tape, SR2-1P (for 625/50 system) :	8-960-075-61
• Alignment tape, CR8-1A (for analog Betacam, NTSC) :	8-960-097-45
• Alignment tape, CR8-1A PS (for analog Betacam, PAL) :	8-960-098-45

Note

Refer to Section 1-18 about the contents of the alignment tapes.

Other Equipment

- Betacam SX tape, BCT-62SXA (Commercially available)
- Oscilloscope (Tektronix 2465B or equivalent)
- DC power supply (AC-550/550CE or equivalent)
(The AC adaptors AC-500 and AC-DN1 cannot be used to derive power.)
- Weight about 1000 g (It is smaller than S type cassette tape in size.)
- Wooden skewer

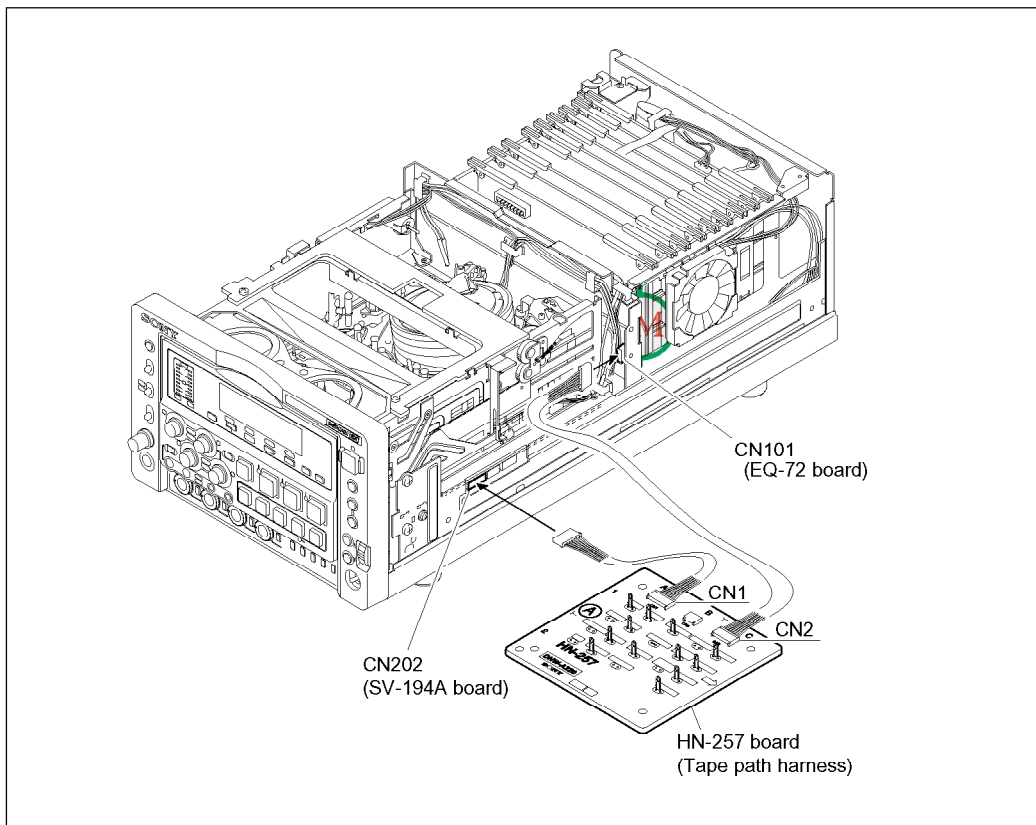
7-1-5. HN-257 Board (Tape Path Harness) Connection

Notes

- Do not place this HN-257 board on a metal workbench directly. If not, incorrect waveform may appear.
- After removing the bottom plate, place the unit horizontally on a flat workbench.

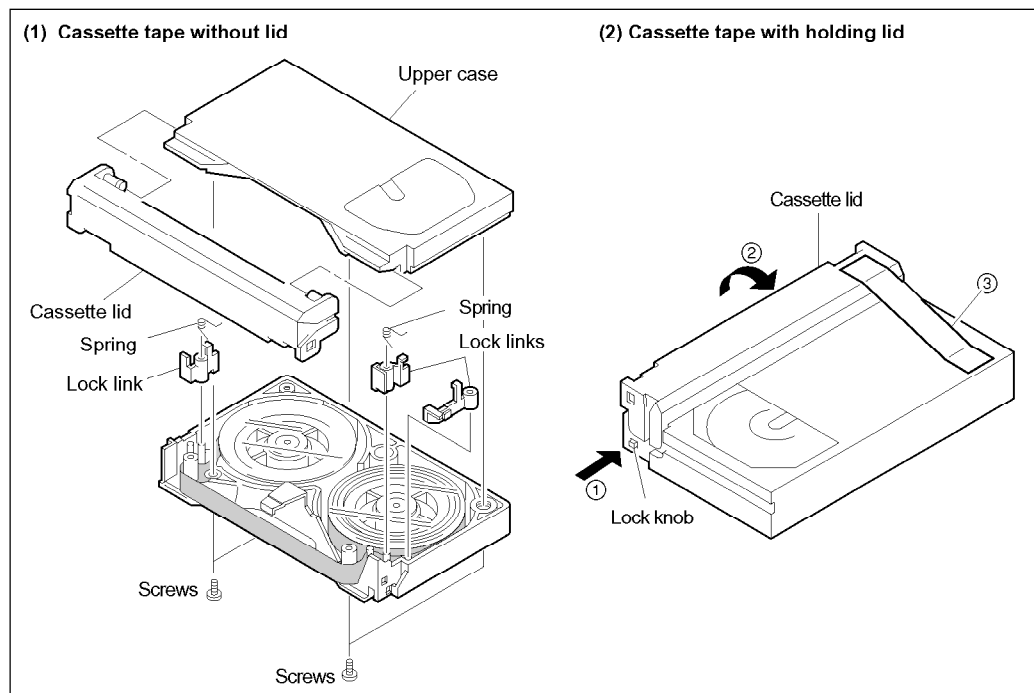
How to connect the tape path harness to the HN-257 board

1. Turn off the power.
2. Remove the top plate. (Refer to the Section 1-4-1.)
3. Connect the harness connector connected to CN1 on the HN-257 board to CN202 on the SV-194A board.
4. Connect the harness connector connected to CN2 on the HN-257 board to CN101 on the EQ-72 board.



7-1-6. Cassette Tape for the Tape Path Adjustment

The tape path adjustment should be performed under the state that the cassette compartment is removed. Therefore, it is necessary to make a following modification (1) or (2) to the cassette tape and alignment tape that are used for the tape path adjustment.



(1) Cassette tape without lid

Disassemble the cassette tape, and take off the cassette lid, springs and lock links shown in the figure.

(2) Cassette tape with holding lid

Open the cassette lid ((2)) while pushing the lock knob ((1)), and fix the cassette lid using an adhesive tape ((3)).

When putting the cassette tape or alignment tape on the VTR, put it on the cassette posts on the mechanical deck. And then, put a weight on the cassette tape so that it does not rise up. The weight about 1000 g is suitable.

7-1-7. Cleaning

Clean the following tape running surfaces before performing the tape path adjustment.

- Tape running surface of the upper drum and video heads
- Tape running surfaces of the lower drum and lead
- Stationary heads and tape cleaner
- Tape guides

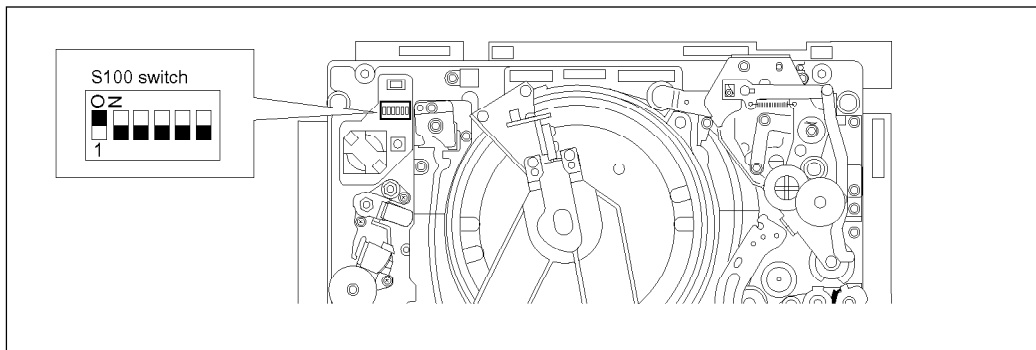
How to clean these portions, refer to the Section 4.

7-1-8. Cassette Compartment

The tape path adjustment should be performed with the cassette compartment is removed.

It should be set the switch S100-1 on the SV-194A board to ON so that the unit put into the cassette compartment locked state electrically. (For detail, refer to Section 5-1-3. Entering the threading end state with the cassette compartment removed.)

After adjustment is completed, be sure to set this switch back to the original position (OFF).



7-1-9. Tracking Control

The auto tracking function operates under the normal operation. During the video tracking adjustment, this auto tracking function should be set to off.

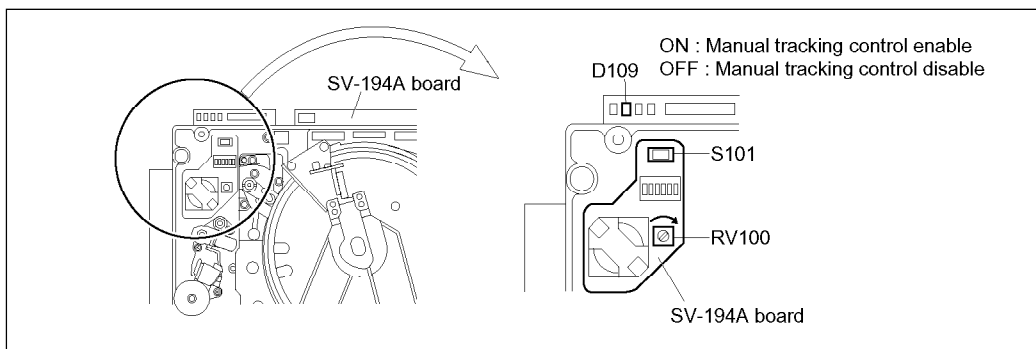
In this state, the tracking control operation using the tracking VR is available.

How to enable the tracking control

1. Turn on the power.
2. Play back the cassette tape or alignment tape.
3. Press and hold the switch S101 on the SV-194A about three seconds until the yellow indicator D109 lights up. Then the tracking can be controlled manually with RV100 on the SV-194A board.

Above state (manual tracking) will be released by means of the following operations, the unit will return to the automatic tracking state (Tracking cannot be controlled manually.), and the indicator D109 will go off.

- Press and hold the switch S101 about three seconds again.
- Press EJECT button.
- Turn off the power.

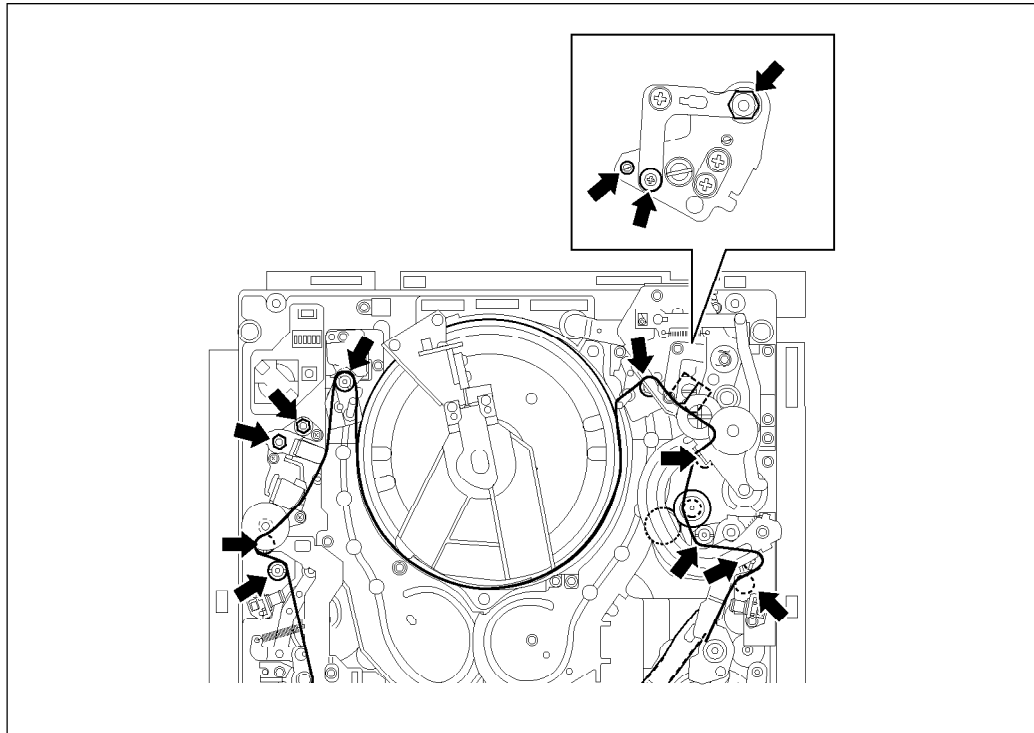


7-1-10. Locking Compound

When loosening or tightening the screws shown in the figure, apply locking compound to the screws after adjustment is completed.

The locking compound that applied to other surrounding parts must be wiped off with gauze or soft cloth.

- Locking compound : 7-432-114-11



7-2. S Tension Regulator Offset/Gain Adjustment

Precaution

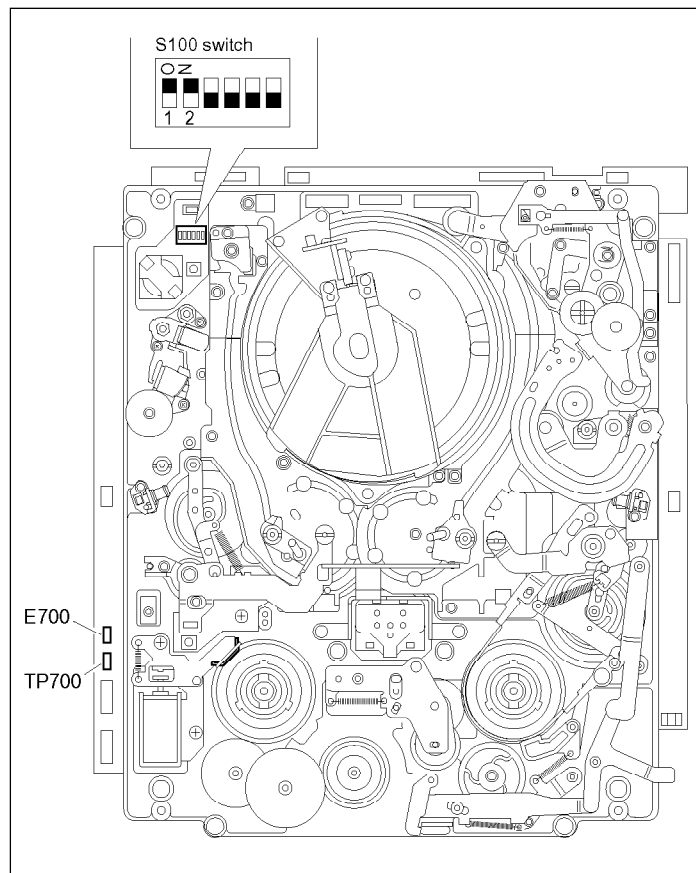
Be sure to perform this adjustment after replacing the S main brake shoe, S reel motor, S reel table and so on.

Tools

- Parallel pin (d = 2.0 mm) : 3-703-358-04
- Oscilloscope (Tektronix 2465B or equivalent)

Preparations

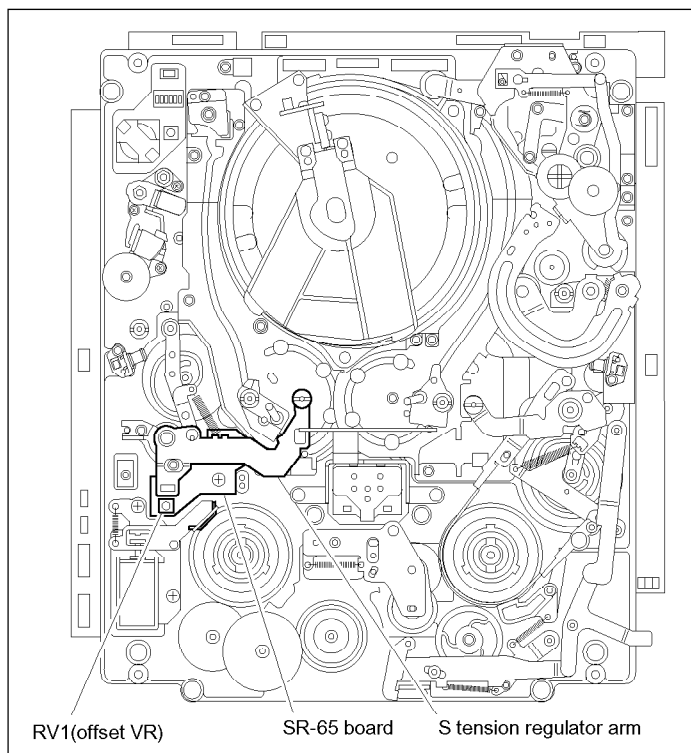
1. Turn off the power.
2. Remove the top plate.
(Refer to Section 1-4-1.)
3. Remove the cassette compartment.
(Refer to Section 1-5.)
4. Connect the oscilloscope as follows (See figure on the right side.):
CH-1 : TP700/SV-194A
GND : E700/SV-194A
CH-1 : DC mode, 0.2 V/DIV
5. Set the switches S100-1 and S100-2 on the SV-194A board to ON.
6. Turn on the power.



Adjustment

1. S tension regulator offset check

- (1) Put the unit into the unthreading end state by pressing the EJECT button.
- (2) Adjust the output level at TP700 on the SV-194A board for 0 V using RV1 on the SR-65 board, when the S tension regulator arm is in the unthreading end state.



- (3) Put the unit into threading end state by pressing the STOP button.
- (4) Insert the parallel pin (d = 2 mm) into the square hole on the S tension regulator arm and the round hole on the mechanical deck.
- (5) While keeping the state of step (3), check that the output level at TP700 meets the specification 1.

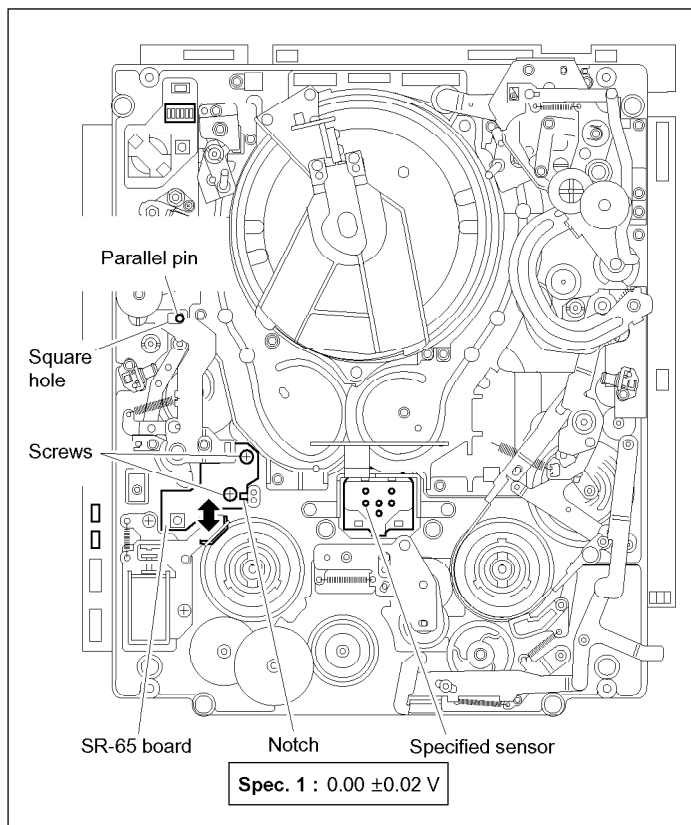
Specification 1 : 0.00 ± 0.02 V

If the specification is met, perform procedure 3 and later.

If not, perform procedure 2 and later.

2. S tension regulator offset adjustment

- (1) Loosen the two screws fixing the SR-65 board by one or two turn.
- (2) Insert the flatbladed screwdriver (3 mm) into the notch of the SR-65 board, adjust the position of the board to meet the specification 1.
- (3) Tighten the two screws loosened in step (1).
Tightening torque :
 $20 \times 10^{-2} \text{ N} \cdot \text{m}$ {2.0 kgf·cm}
- (4) Recheck the output level at TP700 to meet the specification referring to procedure 1.



3. S tension regulator gain check

Note

Before performing this check and adjustment, be sure to check that the S tension regulator offset adjustment meets the Specification 1.

- (1) Push the S tension regulator arm in the direction indicated by the arrow with finger until the left side of the square hole of the arm contacts with the parallel pin.
- (2) While keeping the state of step (1), check the output level at TP700 meets the specification 2.

Specification 2 : -1.00 ± 0.04 V

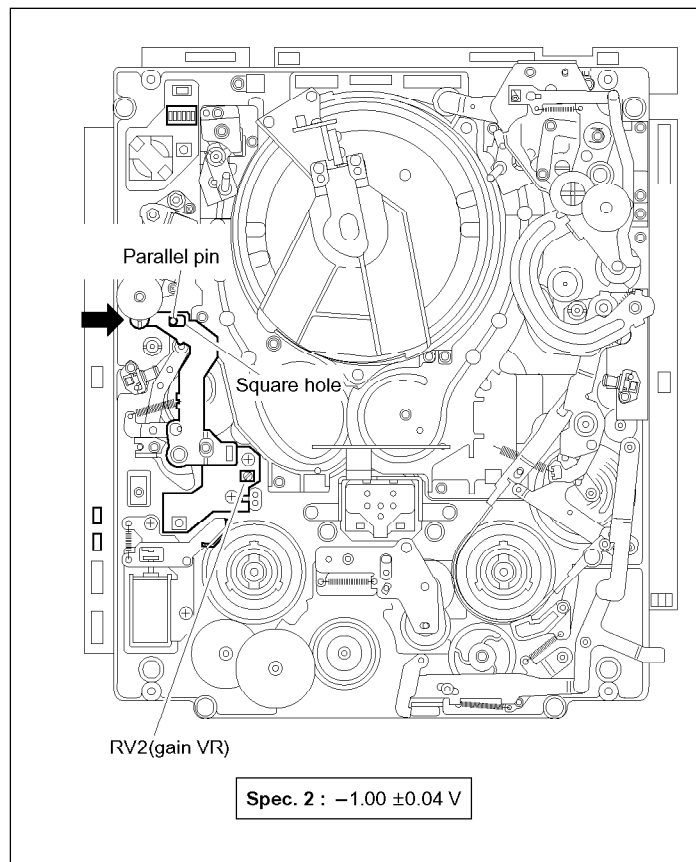
If not to meet the specification, perform step 4.

4. S tension regulator gain adjustment

- (1) Adjust RV2 (gain VR) on the SR-65 board to meet the specification 2.
- (2) Return to the procedure 1, perform checks and adjustments again.

Note

After checks and adjustments are completed, be sure to set switches S100-1 and S100-2 on the SV-194A board back to OFF.



7-3. Back Tension Check and Adjustment

This section explains the FWD and REV back tension checks and adjustments. Be sure to perform checks and adjustments after replacing the following parts.

- S reel table
- S reel motor
- S tension regulator arm
- T reel table
- Tension regulator band
- T tension regulator arm
- T soft brake

7-3-1. FWD Back Tension Check and Adjustment

Be sure to perform this check and adjustment when replacing the S reel table, S reel motor and S tension regulator arm, and when performing the S tension regulator offset/gain adjustment.

Tool

- Torque cassette (FWD back ten.) (MW-389) : J-6323-890-A

Preparations

1. Check that the unit is in the unthreading end state.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the cassette compartment. (Refer to Section 1-5.)
4. Set the switch S100-1 on the SV-194 to ON. (Refer to Section 7-1-8.)
5. Turn on the power.
6. Put the torque cassette on the unit.

Note

When measuring torque, push the center of the torque cassette in order to prevent the rise of it.

Check

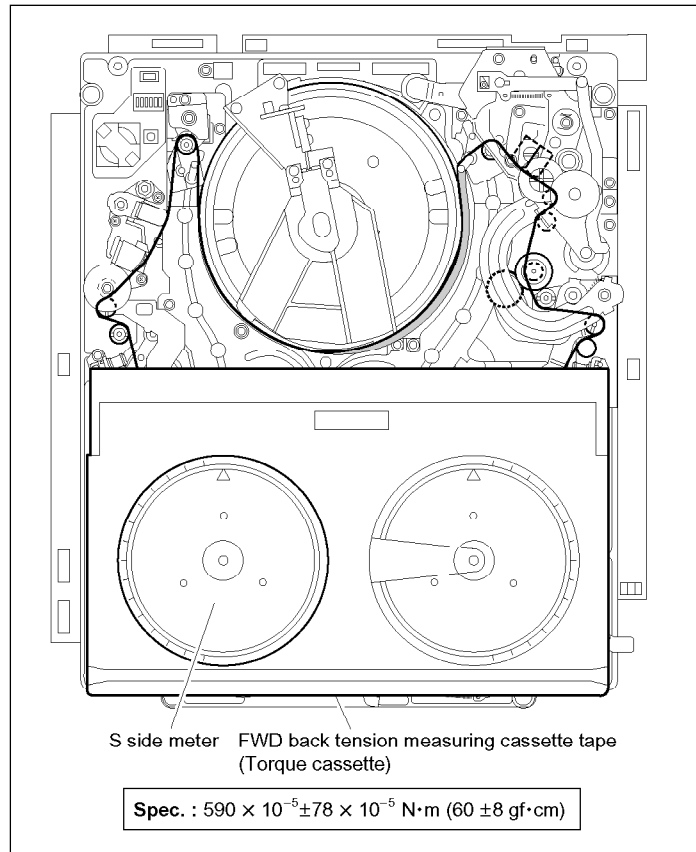
1. FWD back tension check

- (1) Press the PLAY button to put the unit into the PLAY mode.
- (2) Check that the indication at S side meter of the torque cassette meets the specification.

Specification :

$590 \times 10^{-5} \pm 78 \times 10^{-5} \text{ N}\cdot\text{m}$ ($60 \pm 8 \text{ gf}\cdot\text{cm}$)

If not to meet the specification, perform step 2.



Adjustment

2. FWD back tension adjustment

- (1) Press the EJECT button to unthreads the tape.
- (2) Take out the torque cassette.
- (3) Hook the spring on other concave of the hole of S tension regulator drawer arm.

Note

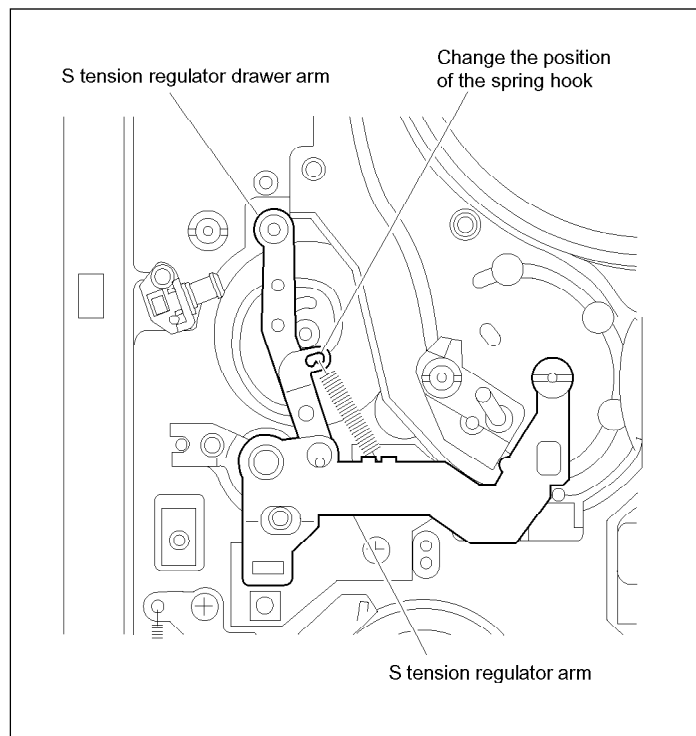
After hooking the spring on another concave, the back tension value deviates by up to $\pm 3 \text{ gf}\cdot\text{cm}$ from the specification 1.

When the specification is not met even if the spring is hooked on another concave, stretch out (extend) or bend (shorten) the hook of the spring.

- (4) Perform the procedure 1 again to recheck the FWD back tension meets the specification.

Note

After check and adjustment are completed, be sure to set switch S100-1 on the SV-194A board back to OFF.



7-3-2. REV Back Tension Check and Adjustment

Be sure to perform this check and adjustment when replacing the T reel table, T tension regulator band and T tension regulator arm.

Tool

- Torque cassette (FWD back ten.) (MW-389) : J-6323-890-A

Preparations

1. Check that the unit is in the unthreading end state.
2. Remove the top plate. (Refer to Section 1-4-1.)
3. Remove the cassette compartment. (Refer to Section 1-5.)
4. Set the switches S100-1 and S100-2 on the SV-194A board to ON.
(Refer to Section 7-1-8.)

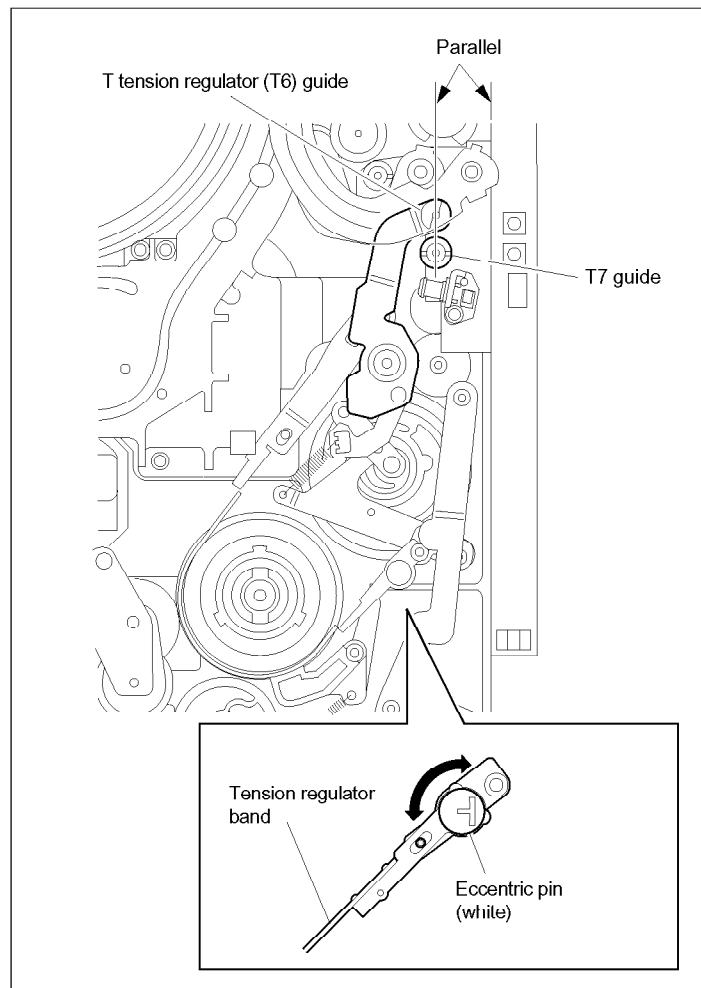
Check

1. T tension regulator arm operating position check

Reference

Adjust the T tension regulator arm operating position by changing the tension regulator band in length.

- (1) Turn on the power to put the unit into the threading end state.
- (2) Check the positional relationship between the connection line which connect the center-to-center of T tension regulator arm (T6) guide and T7 guide, and the side edge of the mechanical deck is parallel.
- (3) If not, adjust the eccentric pin (white) on the tension regulator band using a flatbladed screwdriver until the positional relationship meets.



2. REV back tension check

- (1) Put the torque cassette on the unit.

Note

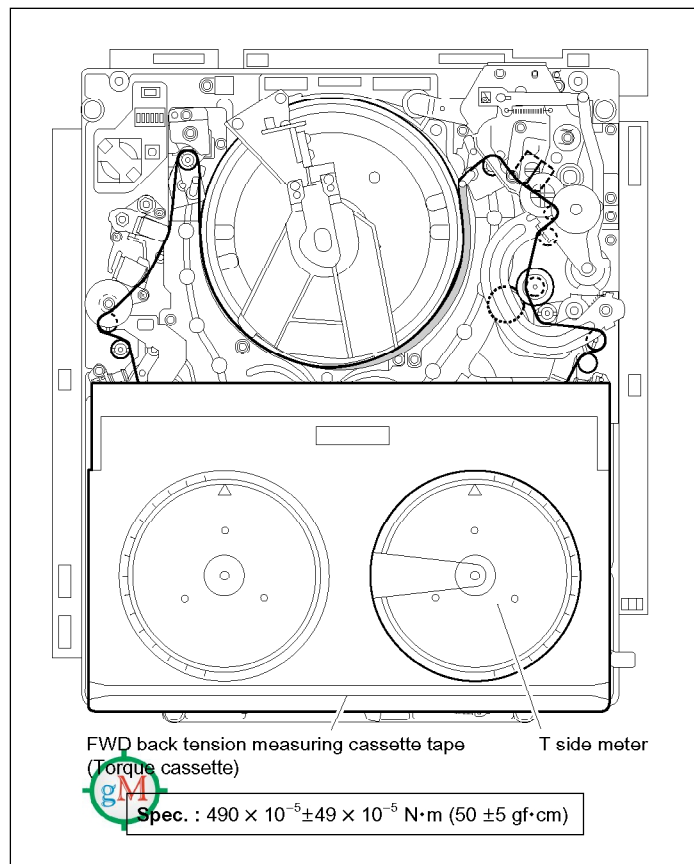
When measuring torque, push the center of the torque cassette in order to prevent the rise of it.

- (2) Press the PLAY button to put the unit into the PLAY mode. And then, press the JOG dial and turn it to put the unit into REV×1 mode. (As for switching to the search mode, refer to the operation manual, Section 3-2.)
- (3) Check that the indication at T side meter of the torque cassette meets the specification.

Specification :

$490 \times 10^{-5} \pm 49 \times 10^{-5} \text{ N}\cdot\text{m}$ ($50 \pm 5 \text{ gf}\cdot\text{cm}$)

If not to meet the specification, perform step 3.



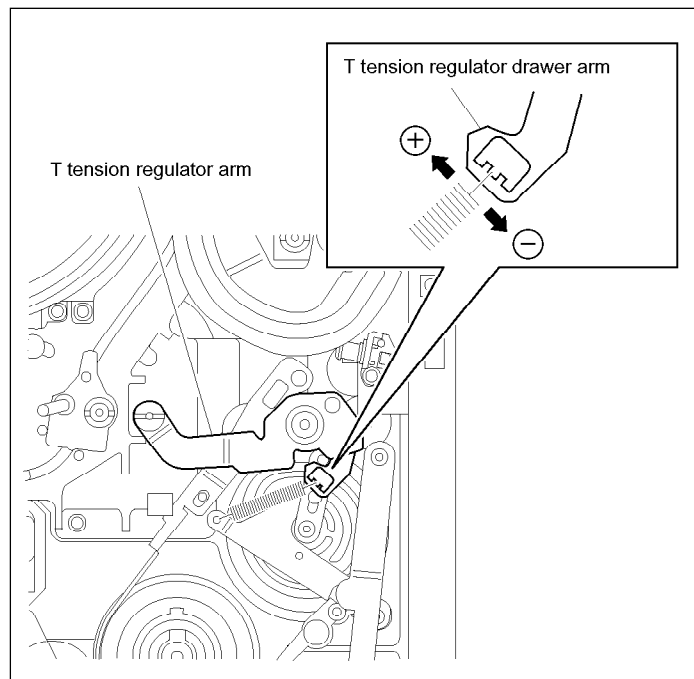
Adjustment

3. REV back tension adjustment

- (1) Press the EJECT button to unthreads the tape.
- (2) Take out the torque cassette.
- (3) Hook the spring on other concave of the hole of the T tension regulator drawer arm.
 - When the meter readout is below the spec. : Hook the spring on ⊕ side concave.
 - When the meter readout is over the spec. : Hook the spring on ⊖ side concave.
- (4) Recheck the REV back tension meets the specification according to step 2.

Note

After check and adjustment are completed, be sure to set the switch S100-1 on the SV-194A board back to OFF.



7-4. Tape Running Check and Adjustment

Precaution

The tape running condition is closely related with S reel table height and T reel table height.

Before performing this check and adjustment, be sure to check the S reel table height and T reel table height. (Refer to step 7 in Section 6-7.)

Tools

- Betacam SX tape, BCT-62SXA (Commercially available)
- Inspection mirror : J-6080-840-A
- Tape guide adjustment driver (45) : J-6322-420-A

Preparations

1. Check that the unit is in the unthreading end state.
2. Turn off the power.
3. Remove the top plate. (Refer to Section 1-4-1.)
4. Remove the cassette compartment. (Refer to Section 1-5.)
5. Remove the VH cleaner assembly. (Refer to Section 5-6.)
6. Set the switch S100-1 on the SV-194A board to ON. (Refer to Section 7-1-8.)

Note

After check and adjustment are completed, be sure to set the switch S100-1 on the SV-194A board back to OFF.

Check

1. Set S cassette tape

Put the S cassette tape without lid onto the mechanical deck, and then put the weight (about 1000 g) on the cassette tape.

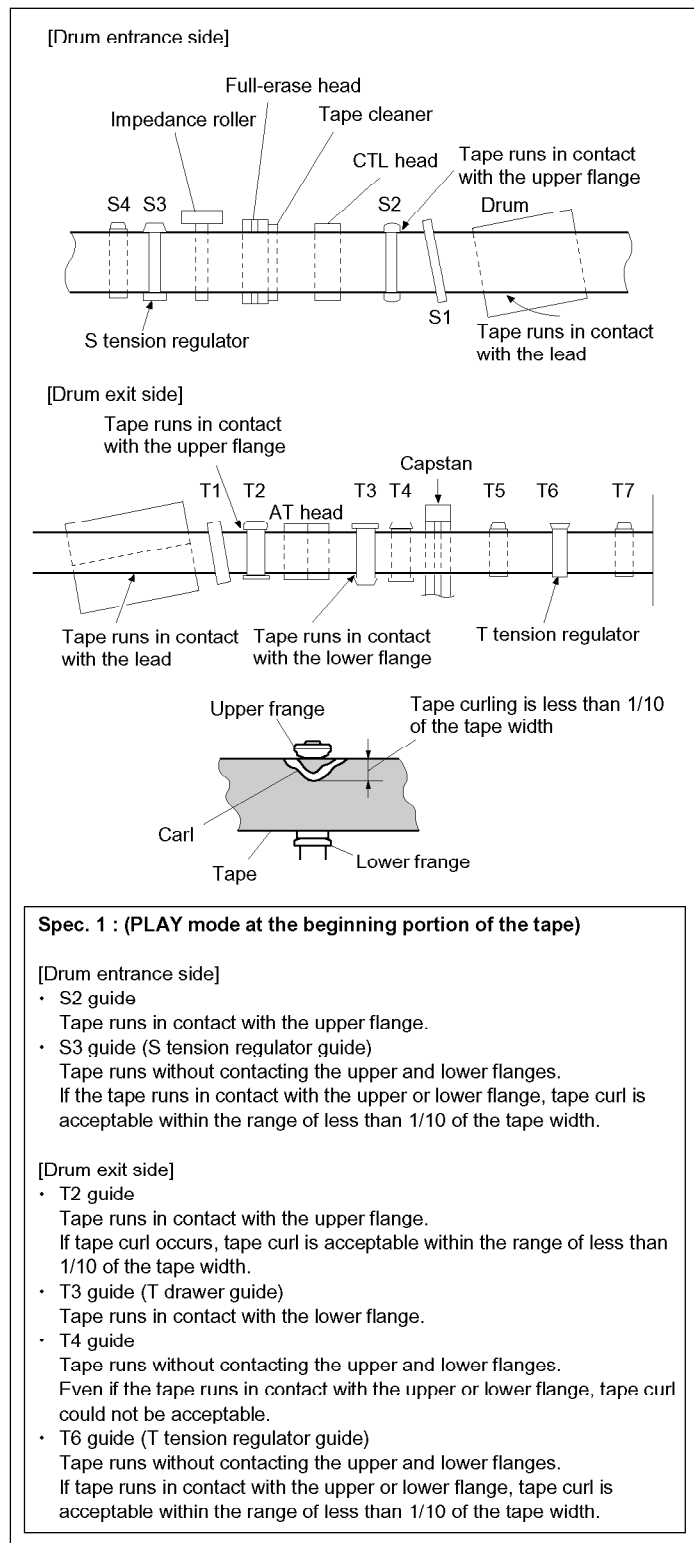
Note

Be sure to fast-rewind the tape in advance.

2. Turn on the power.

3. PLAY mode check (At the beginning portion of the tape)

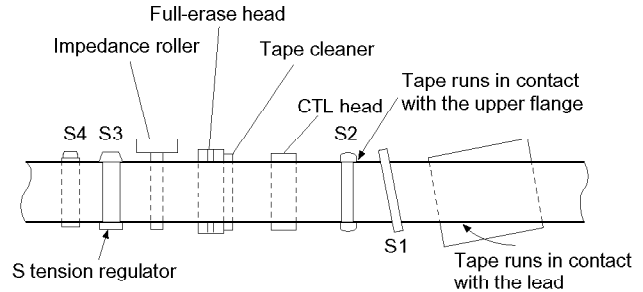
- (1) Press the PLAY button to put the unit into the PLAY mode.
- (2) Check the tape running condition satisfies the specification 1.



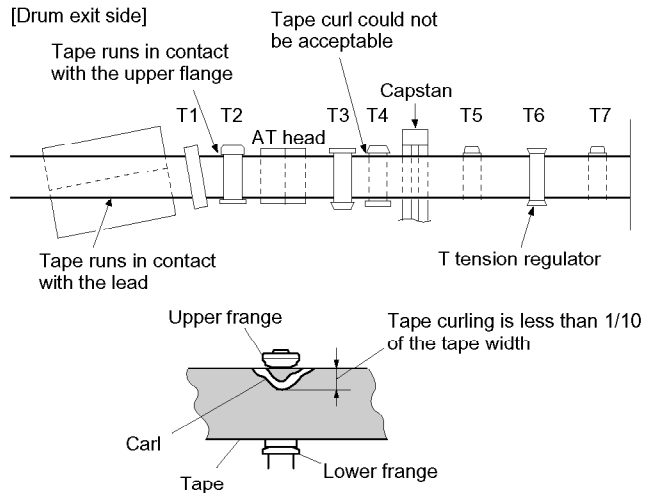
4. F FWD mode check (At the beginning portion of the tape)

- (1) Press the FF button to put the unit into the F FWD mode.
- (2) Check the tape running condition satisfies the specification 2.

[Drum entrance side]



[Drum exit side]



Spec. 2 : (F FWD mode at the beginning portion of the tape)

[Drum entrance side]

- S2 guide
Tape runs in contact with the upper flange.
- S3 guide (S tension regulator guide)
Tape runs without contacting the upper and lower flanges.
If the tape runs in contact with the upper or lower flange, tape curl is acceptable within the range of less than 1/10 of the tape width.

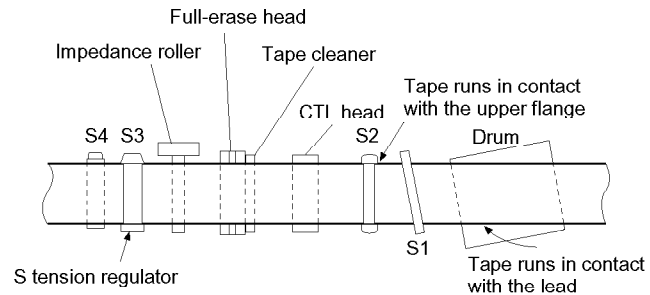
[Drum exit side]

- T2 guide
Tape runs in contact with the upper flange.
- T3 guide (T drawer guide)
Tape runs in contact with the lower flange.
If tape curl occurs, tape curl is acceptable within the range of less than 1/10 of the tape width.
- T4 guide
Tape runs without contacting the upper and lower flanges.
Even if the tape runs in contact with the upper or lower flange, tape curl could not be acceptable.
- T6 guide (T tension regulator guide)
Tape runs without contacting the upper and lower flanges.
If tape runs in contact with the upper or lower flange, tape curl is acceptable within the range of less than 1/10 of the tape width.

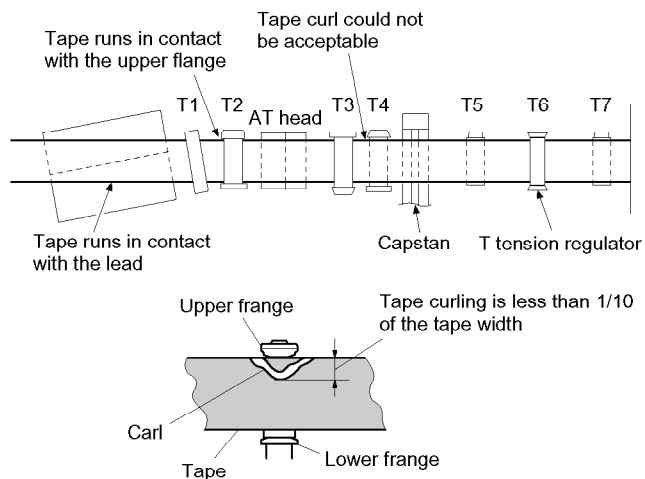
5. REVx1 mode check (At the beginning portion of the tape)

- (1) Press the PLAY button, and then press the JOG dial and turn it to put the unit into the REVx1 mode.
(As for switching to the search mode, refer to the operation manual, Section 3-2.)
- (2) Check the tape running condition satisfies the specification 3.

[Drum entrance side]



[Drum exit side]



Spec. 3 : (REVx1 mode at the beginning portion of the tape)

[Drum entrance side]

- S2 guide
Tape runs in contact with the upper flange.
- S3 guide (S tension regulator guide)
Tape runs without contacting the upper and lower flanges.
If the tape runs in contact with the upper or lower flange, tape curl is acceptable within the range of less than 1/10 of the tape width.

[Drum exit side]

- T2 guide
Tape runs in contact with the upper flange.
- T3 guide (T drawer guide)
Tape runs in contact with the lower flange.
If tape curl occurs, tape curl is acceptable within the range of less than 1/10 of the tape width.
- T4 guide
Tape runs without contacting the upper and lower flanges.
Even if the tape runs in contact with the upper or lower flange, tape curl could not be acceptable.
- T6 guide (T tension regulator guide)
Tape runs without contacting the upper and lower flanges.
If tape runs in contact with the upper or lower flange, tape curl is acceptable within the range of less than 1/10 of the tape width.

6. Tape running condition check around capstan shaft

- (1) Put the unit into the REW mode at the end portion (50 min. to 60 min.) of the S cassette tape (BCT-62SXA). When the rewind speed is put into a uniform, change the mode from REW to PLAY.

Just as the mode was changed, check the tape running condition between T4 guide and capstan shaft, and between capstan shaft and T5 guide meet the specification 4.

- (2) Repeat the step (1) three times, and check the tape running conditions meet the specification 4 on every time.

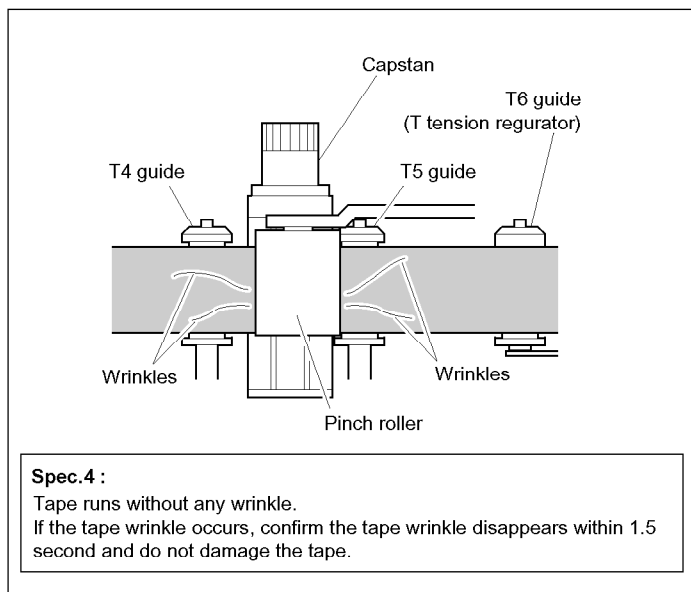
If not, perform procedure 7 and later.

- (3) Put the unit into the F FWD mode at the end portion (50 min. to 60 min.) of the S cassette tape (BCT-62SXA). When the fast forward speed is put into a uniform, change the mode from F FWD to PLAY.

Just as the mode was changed, check the tape running condition between T4 guide and capstan shaft, and between capstan shaft and T5 guide meet the specification 4.

- (4) Repeat the step (3) three times, and check the tape running conditions meet the specification 4 on every time.

If not, perform step 7 and later.

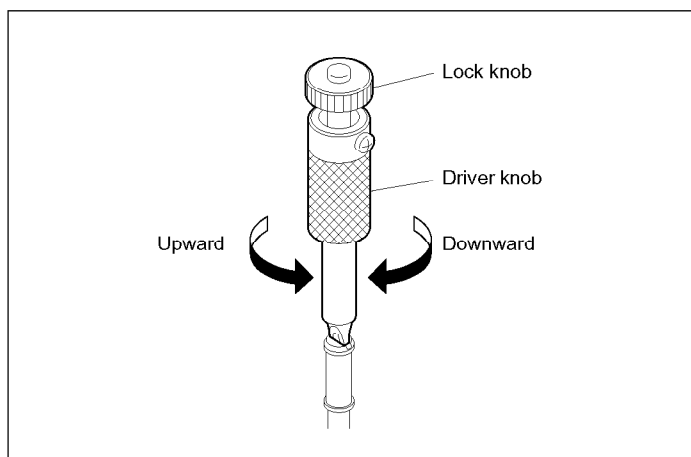


Adjustment

7. Tape guide height adjustment

- In the case that the tape tends to run on upper-end side with the unit switched from PLAY to REW;

- (1) Adjust T6 Guide (T tension regulator) by turning the upper flange 90 degrees clockwise to lower it.
- (2) Check the tape running conditions (by performing the procedures from 1 to 6.)
- (3) If the tape running conditions do not meet the specs 1 to 4, re-perform the tape guide height adjustment. (Do not exceed 180 degrees (twice 90 degrees) when turning the upper flange.)



- In the case that the tape tends to run on lower-end side with the unit switched from PLAY to REW;
 - (1) Adjust T6 Guide (T tension regulator) by turning the upper flange 90 degrees counterclockwise to raise it.
 - (2) Check the tape running conditions (by performing the steps from 1 to 6.)
 - (3) If the tape running conditions do not meet the specs 1 to 4, re-perform the tape guide height adjustment. (Do not exceed 180 degrees (twice 90 degrees) when turning the upper flange.)

8. Recheck of tape running condition

Perform procedures 1 through 6 again, and recheck the tape running conditions meet each specifications.

If not, perform procedure 7 again.

In Case the Adjustment is Performed

9. Video tracking check and adjustment

(Refer to Section 7-5.)

10. CTL head position check and adjustment

(Refer to Section 7-7.)

11. AT head height check and adjustment

(Refer to Section 7-9.)

12. AT head azimuth check and adjustment

(Refer to Section 7-10.)

13. CTL head position check and adjustment

(Refer to Section 7-7.)

14. AT head position check and adjustment

(Refer to Section 7-8.)

Note

After check and adjustment are completed, be sure to set the switch S100-1 on the SV-194A board back to OFF.

7-5. Video Tracking Check and Adjustment

Tools

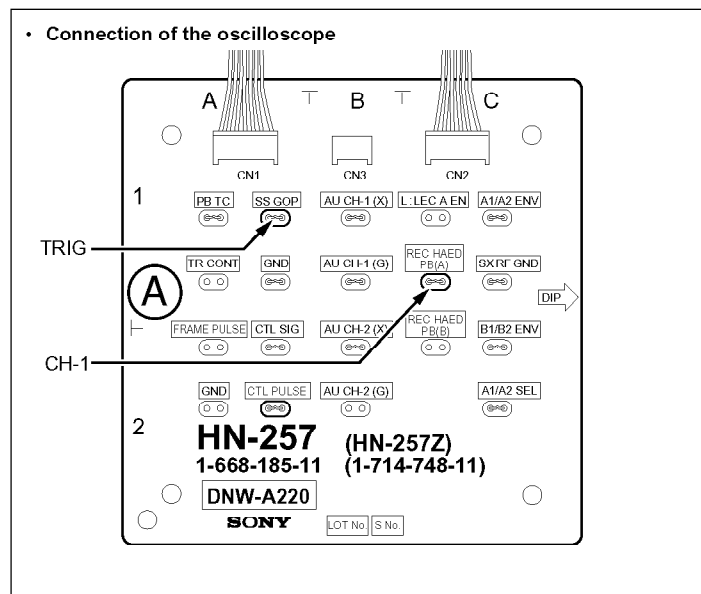
• Alignment tape SR2-1 (for 525/60 system) :	8-960-075-11
• Alignment tape SR2-1P (for 625/50 system) :	8-960-075-61
• Alignment tape CR2-1B (for analog Betacam, NTSC) :	8-960-960-01
• Alignment tape CR2-1B PS (for analog Betacam, PAL) :	8-960-096-51
• Oscilloscope (Tektronix 2465B or equivalent)	
• Inspection mirror :	J-6080-840-A
• Tape guide adjustment driver :	J-6322-420-A
• HN-257 mounted circuit board :	A-8317-304-A

Preparations

1. Turn the power off.
2. Remove the top plate.
(Refer to Section 1-4-1.)
3. Remove the cassette compartment.
(Refer to Section 1-5.)
4. Remove the VH cleaner assembly.
(Refer to Section 5-6.)
5. Connect the HN-257 board (tape path harness).
(Refer to Section 7-1-5.)
6. Connect the oscilloscope.
Connect the oscilloscope as follows (See figure on the right side.);
CH-1 : REC HEAD PB (A)/HN-257 board
TRIG : SS GOP/HN-257 board
Oscilloscope setting :
CH-1 : 100 mV/DIV
TIME : 5 ms/DIV

7. Switch setting

Set the switches S100-1 and S100-2 on the SV-194A board to ON.
(Refer to Section 7-1-8.)



Check

8. Turn the power on

9. Mode setting (Rec head PB)

- (1) Press S200 (B-1) on the SY-259B board to enter the unit in the maintenance mode.
(Refer to Section 3.)
- (2) Turn the Jog dial, put a cursor (*) to "M0 : TAPE MAINTENANCE," and press JOG dial or SET button.
- (3) Put the cursor to "A4 MECHANISM" and press JOG dial or SET button.
- (4) Put the cursor to "A40 : PATH MODE" and press JOG dial or SET button.
- (5) Put the cursor to "Switching PB" and press SET button. Then the "□" mark will be displayed at the upper right corner of the video monitor screen.

Note

Refer to "Section 3 Maintenance Mode" for more information about the maintenance mode.

10. Check the CTL head height

(Refer to Section 7-6.)

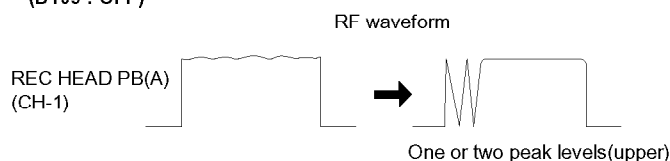
Note

Be sure to perform the CTL head position adjustment when the CTL head height adjustment had adjusted.

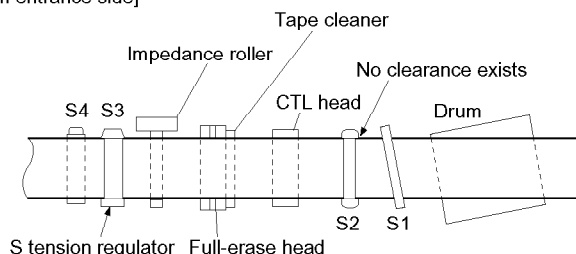
11. Tape rising pressure check (S side)

- (1) Press in the switch S101 on the SV-194A board and hold it more than three seconds, check that D109 LED goes out.
(Refer to Section 7-1-9.)
- (2) Play back the SR2-1/P (00 : 00 to 15 : 00).
- (3) Turn the upper flange of the S2 guide counter-clockwise using a tape guide adjustment driver so that one or two peak levels are appeared in an RF signal waveform as shown in the figure.
At that time, check the following.
 - Check that no clearance exists between the upper flange of S2 guide and upper edge of the tape.
 If they are not satisfied, perform the tape running adjustment (refer to Section 7-4) and video tracking adjustment (refer to procedures 22 and later) to meet both specifications.
- (4) Turn the upper flange of S2 guide clockwise so that the RF signal waveform is almost flat.

- Alignment tape : SR2-1/P (00 : 00 to 15 : 00)
(D109 : OFF)



[Drum entrance side]

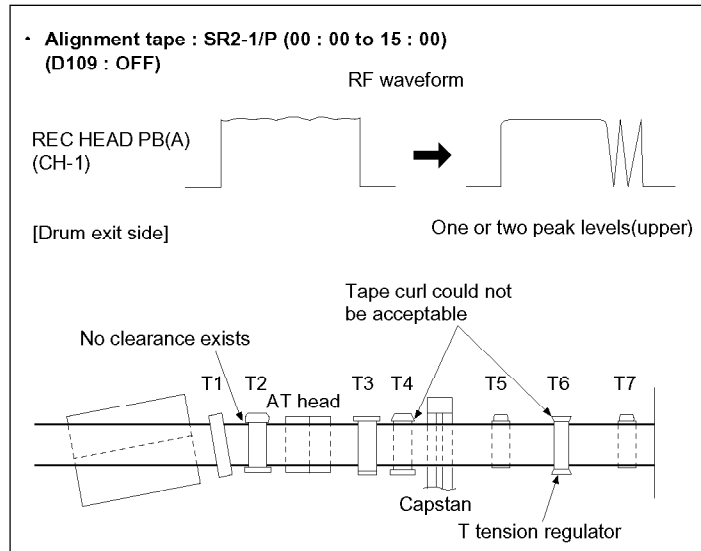


12. Tape rising pressure check (T side)

- (1) Check to see that D109 LED on the SV-194A board is OFF.
- (2) Play back the SR2-1/P (00 : 00 to 15 : 00).
- (3) Turn the upper flange of the T2 guide counterclockwise using a tape guide adjustment driver so that one or two peak levels are appeared in an RF signal waveform as shown in the figure. At that time, check the followings.
 - Check that no clearance exists between the upper flange of T2 guide and upper edge of the tape.
 - Check that the tape runs without contacting the upper and lower flanges of the T4 and T6 guides.

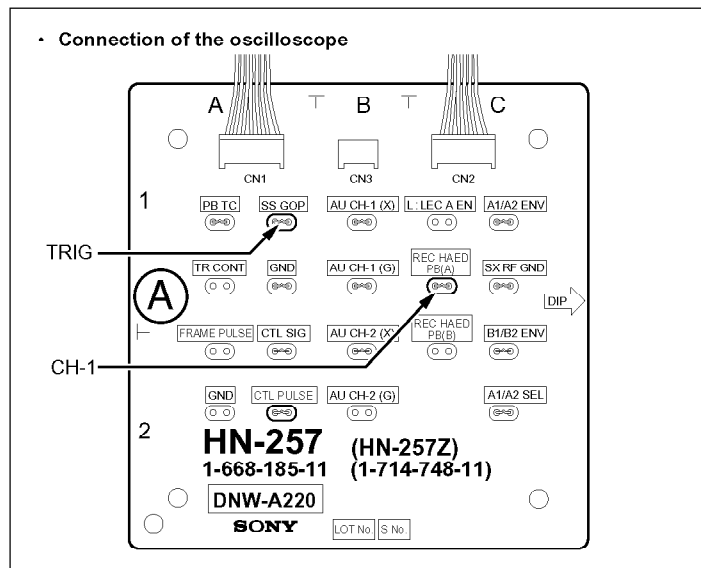
If tape runs in contact with the upper or lower flanges of the T4, and T6 guides, tape curl could not be acceptable.

If they are not satisfied, perform the tape running adjustment (refer to Section 7-4) and video tracking adjustment (refer to procedures 22 and later) to meet both specifications.
- (4) Turn the upper flange of T2 guide clockwise so that the RF signal waveform is almost flat.



13. PLAY mode

- (1) Connect the oscilloscope as follows (See figure on the right side.);
CH-1 : REC HEAD PB (A) /HN-257 board
TRIG : SS GOP/HN-257 board
Oscilloscope setting;
CH-1 : 100 mV/DIV
TIME : 1 ms/DIV
- (2) Play back the SR2-1/P (00 : 00 to 15 : 00).
- (3) Press in the switch S101 on the SV-194A board and hold it more than three seconds to enable the tracking VR.



- (4) Turn the tracking VR (RV100) on the SV-194A board so that the output level of the center portion of RF envelope waveform is maximized.
- (5) Turn the tracking VR (RV100) clockwise so that the center portion of the RF envelope waveform makes 80% of its maximum output level.
- (6) While keeping the state of step (5), check that the RF envelope waveform satisfies specification 1.

Note

If the level fluctuates, read the average level.

- (7) If the level fluctuates, turn the tracking VR (RV100) so that the output level in the center portion of the RF envelope waveform is maximized, and check that the fluctuation amounts satisfy the specification 2.

If specifications 1 and 2 are not satisfied, perform the adjustment (at the Drum Entrance Side or the Drum Exit Side) in procedures 22 and later.

14. F. FWD and REV modes

- (1) Press in the switch S101 on the SV-194A board and hold it more than three seconds, and then check that D109 goes out.
- (2) Play back the SR2-1/P (00 : 00 to 15 : 00).
- (3) Put the unit into the F. FWD×24 mode, and then check that the RF waveform satisfies the specification 3.

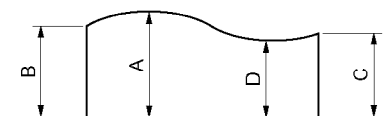
Note

As for switching to the search mode, refer to the operation manual, Section 3-2.

- (4) Put the unit into the REV×24 mode, and then check that the RF waveform satisfies the specification 3.

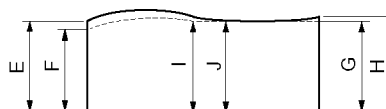
If specification 3 is not satisfied in each mode, perform the adjustment (at the Drum Entrance Side or the Drum Exit Side) in procedures 22 and later.

- Alignment tape : SR2-1/P (00 : 00 to 15 : 00)
(D109 : ON)



Spec.1: The output level of the waveform should be more than 80 % of the maximum value.

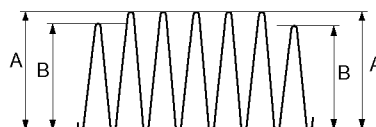
$$\frac{B}{A} \geq 0.8, \quad \frac{C}{A} \geq 0.8, \quad \frac{D}{A} \geq 0.8$$



Spec.2: The fluctuation value in each portion of a waveform should be less than 10 %.

$$\frac{F}{E} \geq 0.9, \quad \frac{H}{G} \geq 0.9, \quad \frac{J}{I} \geq 0.9$$

- Alignment tape : SR2-1/P (00 : 00 to 15 : 00)
(D109 : OFF)



$$\text{Spec. 3: } \frac{B}{A} \times 100 \geq 80 \%$$

15. REV×10 mode to PLAY mode

- (1) Play back the SR2-1/P (00 : 00 to 15 : 00).
- (2) Put the unit into the REV×10 mode. (As for switching to the search mode, refer to the operation manual, Section 3-2.) When the tape becomes a constant speed, put the unit into the PLAY mode.
Make sure that the RF envelope waveform rises uniformly.
- (3) Repeat changing the mode REV×10 to PLAY three times, check that the waveform satisfies the specification 4 on every time.

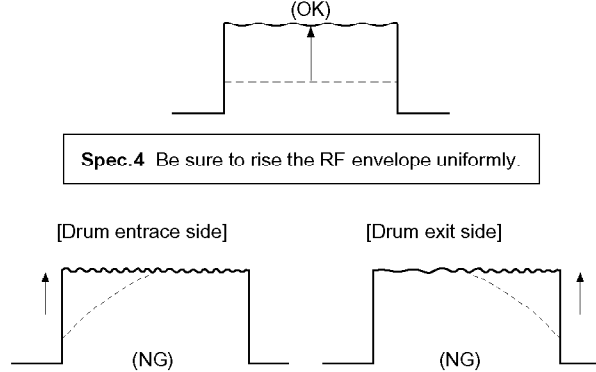
16. Adjust the drum PG phase

(Refer to Section 8-2-1.)

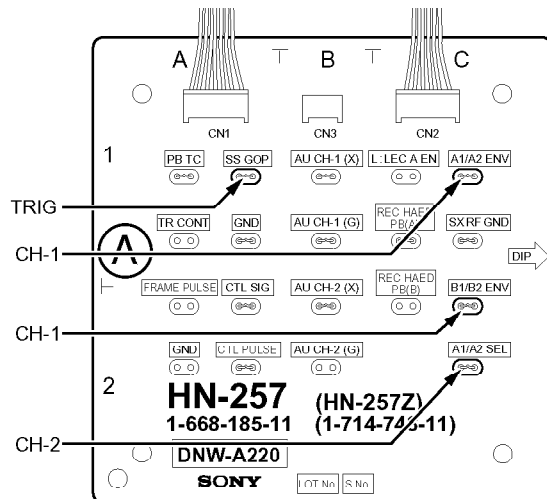
17. Check the PB head head-to-tape contact

- (1) Turn the power off.
- (2) Wait about three seconds, and then turn the power on. The REC head PB mode is released due to it.
- (3) Connect the oscilloscope as follows (See figure on the right side.);
CH-1 : A1/A2 ENV/HN-257 board
CH-2 : A1/A2 SEL/HN-257 board
TRIG : SS GOP/HN-257 board
Oscilloscope setting :
CH-1 : 200 mV/DIV
CH-2 : 5 V/DIV
TIME : 2 ms/DIV
- (4) Play back the SR2-1/P (20 : 00 to 25 : 00).
- (5) Press in the switch S101 on the SV-194A board and hold it more than three seconds to enable the tracking VR.
- (6) Turn the tracking VR (RV100) on the SV-194A board so that the output level at the center portion of the RF waveform of A1 channel is maximized.
- (7) Check that the RF waveform of A1 channel satisfies the specification 5.
- (8) Maximize the output level of the RF waveform of A2 channel by turning the tracking VR (RV100) on the SV-194A board, check that the RF waveform of A2 channel satisfies the specification 5.
- (9) Change the connection of CH-1 of the oscilloscope to TP "B1/B2 ENV" on the HN-257 board, and then perform the check from steps (6) through (8) in the same way.

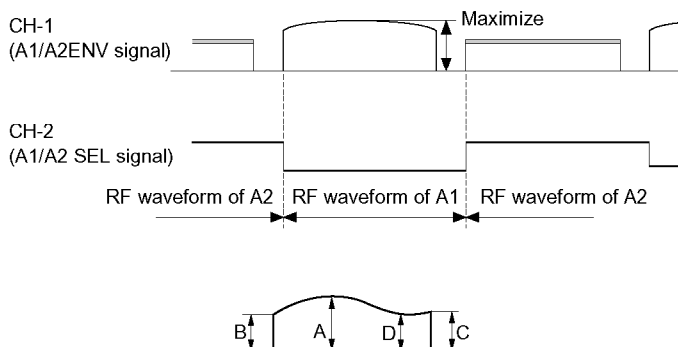
- Alignment tape : SR2-1/P (00 : 00 to 15 : 00)
(D109 : OFF)



- Connection of the oscilloscope



- Alignment tape : SR2-1/P (20 : 00 to 25 : 00)
(D109 : ON)



Spec. 5: The output level of the waveform should be more than 80 % of the maximum value.

$$\frac{B}{A} \geq 0.8, \quad \frac{C}{A} \geq 0.8, \quad \frac{D}{A} \geq 0.8$$

18. Check the Y/C head head-to-tape contact

- (1) Connect the oscilloscope as follows (See figure on the right side.);
 CH-1 : A1/A2 ENV/HN-257 board
 CH-2 : B1/B2 ENV/HN-257 board
 TRIG : A1/A2 SEL/HN-257 board
 Oscilloscope setting :
 CH-1 : 200 mV/DIV
 CH-2 : 200 mV/DIV
 TIME : 5 to 2 ms/DIV
- (2) Press the EJECT button and take out the SR2-1/P to put the unit into the unthreading end state. And then, the tracking control becomes fixed condition.
 Check that D109 LED on the SV-194A board is OFF.
- (3) Insert the CR2-1B/PS.
- (4) Press the PLAY button to play back the CR2-1B/PS (any portion). The waveform is displayed on the oscilloscope as shown in the figure.
- (5) Check that the RF waveforms of Ya, Yb, Ca, and Cb satisfy the specification 6.

The video tracking checks are all satisfied the specifications, perform the following adjustment.
 If not, perform the procedures 22 and later,

19. Adjust the AT head position

(Refer to Section 7-8.)

20. Check the AT head height

(Refer to Section 7-9.)

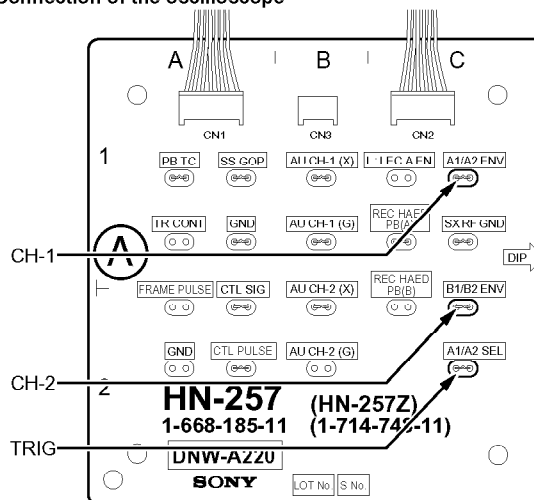
Note

Be sure to adjust the AT head position after the AT head height adjustment.

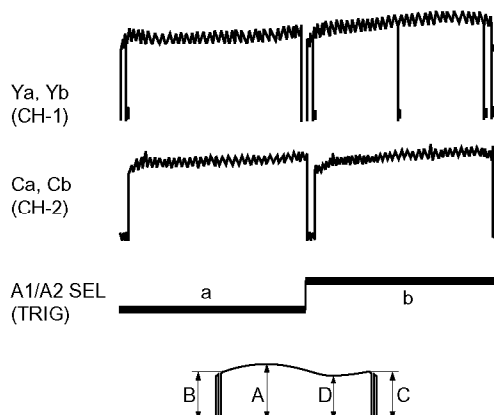
21. Check the AT head azimuth

(Refer to Section 7-10.)

• Connection of the oscilloscope



• Alignment tape : CR2-1B/PS (D109 : OFF)



Spec. 6: The output level of the waveform should be more than 85 % of the maximum value.

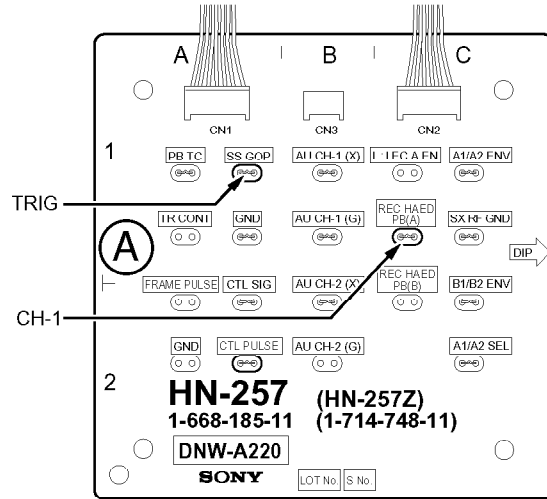
$$\frac{B}{A} \geq 0.85, \quad \frac{C}{A} \geq 0.85, \quad \frac{D}{A} \geq 0.85$$

Adjustment

22. Tracking adjustment on drum entrance side

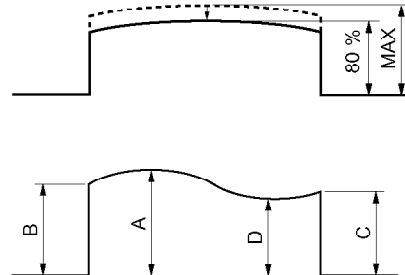
- (1) Put the unit into the REC head PB mode.
(Refer to the procedure 9)
- (2) Connect the oscilloscope as follows (See figure on the right side.);
CH-1 : REC HEAD PB(A)/HN-257 board
TRIG : SS GOP/HN-257 board
Oscilloscope setting;
CH-1 : 100 mV/DIV
TIME : 5 ms/DIV
- (3) Press in the switch S101 on the SV-194A board and hold it more than three seconds to enable the tracking VR.
- (4) Play back the SR2-1/P (00 : 00 to 15 : 00).
- (5) Turn the tracking VR (RV100) so that the output level at the center portion of the RF envelope waveform is maximized.
- (6) Turn the tracking VR (RV100) on the SV-194A board clockwise so that the center portion of the RF envelope waveform makes 80% of its maximum output level.
- (7) Loosen the setscrew on the S2 guide and adjust the height of the S2 guide so that the envelope waveform satisfies the specifications 7 and 8.
If it is not satisfied, perform the tape running adjustment (refer to Section 7-4) and this procedure to meet both specifications.
- (8) Tighten the setscrew on the S2 guide.
Tightening torque :
 $9 \times 10^{-2} \text{ N} \cdot \text{m} \{0.9 \text{ kgf} \cdot \text{cm}\}$

• Connection of the oscilloscope



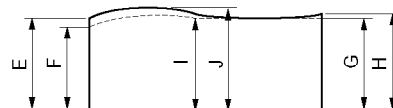
• Alignment tape : SR2-1/P (00 : 00 to 15 : 00) (D109 : ON)

RF envelope waveform



Spec. 7: The output level of the waveform should be more than 80 % of the maximum value.

$$\frac{B}{A} \geq 0.80, \quad \frac{C}{A} \geq 0.80, \quad \frac{D}{A} \geq 0.80$$



Spec. 8: The fluctuation value in each portion of a waveform should be less than 10 %.

$$\frac{F}{E} \geq 0.9, \quad \frac{G}{H} \geq 0.9, \quad \frac{I}{J} \geq 0.9$$

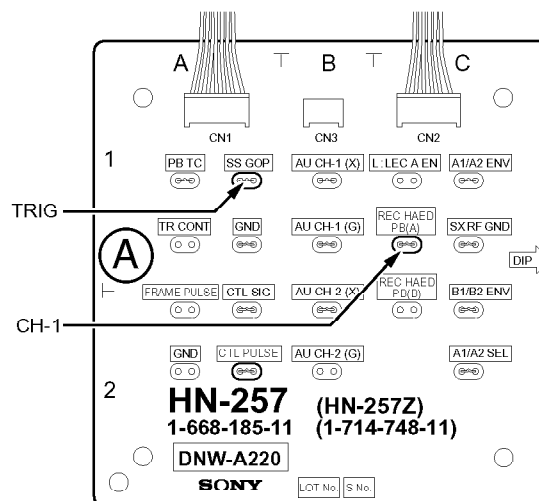
23. Tracking adjustment on drum exit side

- (1) Put the unit into the REC head PB mode.
(Refer to the procedure 9.)
- (2) Connect the oscilloscope as follows (See figure on the right side.);
CH-1 : REC HEAD PB(A)/HN-257 board
TRIG : SS GOP/HN-257 board
Oscilloscope setting;
CH-1 : 100 mV/DIV
TIME : 5 ms/DIV
- (3) Press in the switch S101 on the SV-194A board and hold it more than three seconds to enable the tracking VR.
- (4) Play back the SR2-1/P (00 : 00 to 15 : 00).
- (5) Turn the tracking VR (RV100) on the SV-194A board so that the output level at the center portion of the RF envelope waveform is maximized.
- (6) Turn the tracking VR (RV100) clockwise so that the center portion of the RF envelope waveform makes 80% of its maximum output level.
- (7) Loosen the setscrew on the T2 guide and adjust the height of the T2 guide so that the envelope waveform satisfies the specifications 9 and 10.
If it is not satisfied, perform the tape running adjustment (refer to Section 7-4) and this procedure to meet both specifications.
- (8) Tighten the setscrew on the T2 guide.
Tightening torque :
 $9 \times 10^{-2} \text{ N}\cdot\text{m} \{0.9 \text{ kgf}\cdot\text{cm}\}$

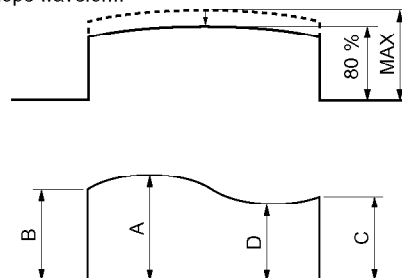
Note

After adjustment are completed, be sure to set the switch S100-1 back to OFF position.

• Connection of the oscilloscope

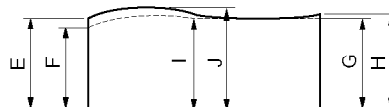
• Alignment tape : SR2-1/P (00 : 00 to 15 : 00)
(D109 : ON)

RF envelope waveform



Spec. 9: The output level of the waveform should be more than 80 % of the maximum value.

$$\frac{B}{A} \geq 0.80, \quad \frac{C}{A} \geq 0.80, \quad \frac{D}{A} \geq 0.80$$



Spec. 10: The fluctuation value in each portion of a waveform should be less than 10 %.

$$\frac{F}{E} \geq 0.9, \quad \frac{G}{H} \geq 0.9, \quad \frac{I}{J} \geq 0.9$$

7-6. CTL Head Height Check and Adjustment

Tools

- Alignment tape SR2-1 (For 525/60 system) : 8-960-075-11
- Alignment tape SR2-1P (For 625/50 system) : 8-960-075-61
- Oscilloscope (Tektronix 2465B or equivalent)
- Nutdriver (d = 4.5 mm) : 7-700-751-01
- HN-257 mounted circuit board : A-8317-304-A

Preparations

1. Turn the power off

2. Connect the oscilloscope

Connect the oscilloscope as follows (See figure on the right side.);

CH-1 : CTL SIG / HN-257 board

TRIG : SS GOP / HN-257 board

Oscilloscope setting :

CH-1 : 2 V/DIV

TIME : 5 ms/DIV

3. Switch setting

Set the switch S100-1 on the SV-194A board to ON.

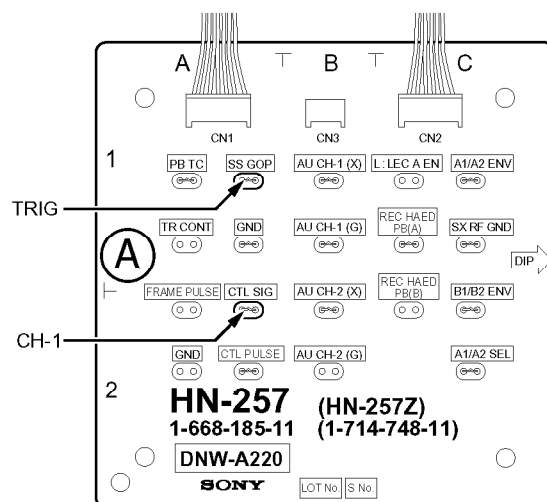
(Refer to Section 7-1-8.)

4. Set the alignment tape

Set the SR2-1/P and put a weight on the cassette so that it does not rise up.

(Weight about 1000 g is suitable.)

• Connection of the oscilloscope



Check

5. Turn the power on

6. Play back the alignment tape

Play back the SR2-1/P (15 : 00 to 27 : 00).

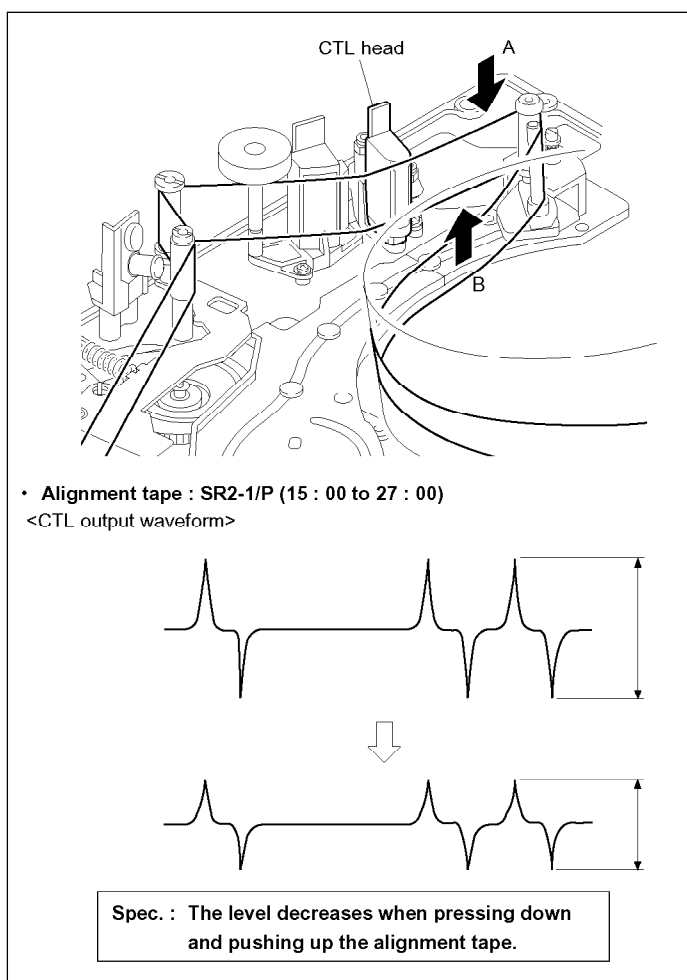
7. Check the CTL head height

- (1) Check that the level decreases when portion A of the tape shown in the figure is pressed down.

If the level increases, perform step 8.

- (2) Check that the level decreases when portion B of the tape is pushed up.

If the level increases, perform step 9.



Adjustment

8. In case the level increases when the tape is pressed down

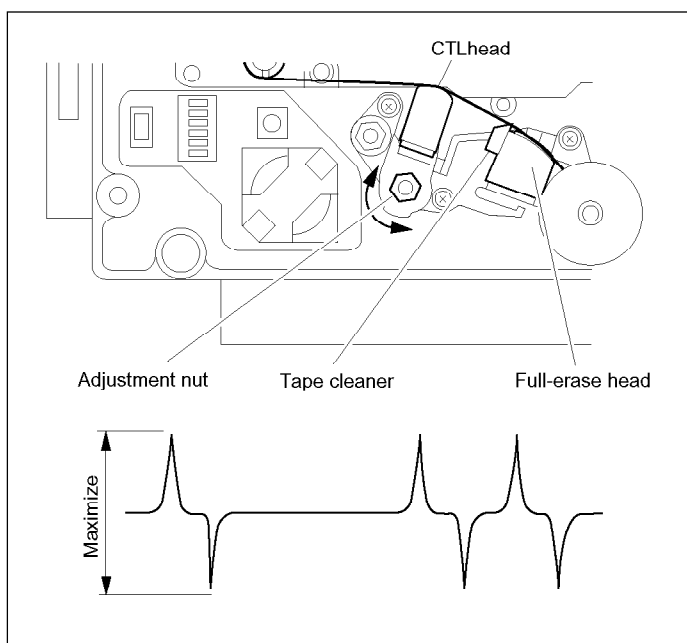
Turn the adjustment nut counterclockwise and adjust so that the output waveform is maximum. And at that time, check the output level is 5 V_{p-p} or more.

9. In case the level increases when the tape is pushed Up

Turn the adjustment nut clockwise and adjust so that the output waveform is maximum. And at that time, check the output level is 5 V_{p-p} or more.

Note

After adjustment are completed, be sure to set the switch S100-1 back to OFF position.



7-7. CTL Head Position Check and Adjustment

Note

The CTL head position adjustment is closely related to the AT head position adjustment.

Be sure to confirm the AT head position when the CTL head position is adjusted.

Tools

- Alignment tape SR2-1 (For 525/60 system) : 8-960-075-11
- Alignment tape SR2-1P (For 625/50 system) : 8-960-075-61
- Oscilloscope (Tektronix 2465B or equivalent)
- Nutdriver (d = 4.5 mm) : 7-700-751-01
- HN-257 mounted circuit board : A-8317-304-A

Preparations

1. Turn the power off

2. Connect the oscilloscope

Connect the oscilloscope as follows (See figure on the right side.);

CH-1 : REC HEAD PB (A) / HN-257board

TRIG : SS GOP / HN-257board

Oscilloscope setting :

CH-1 : 1 V to 200 mV/DIV

TRIG : 5 V/DIV

TIME : 5 ms/DIV

3. Switch setting

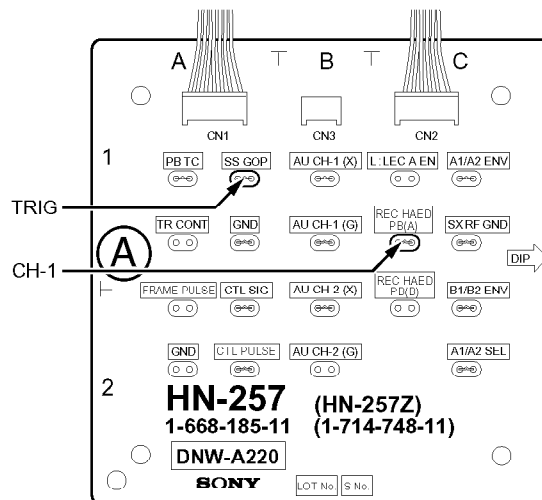
Set the switch S100-1 on the SV-194A board to ON. (Refer to Section 7-1-8.)

4. Set the alignment tape

Set the SR2-1/P and put a weight on the cassette so that it does not rise up.

Weight about 1000 g is suitable.

• Connection of the oscilloscope



Check

5. Turn the power on

6. Mode setting (REC head PB)

- (1) Press S200 (B-1) on the SY-259B board to enter the unit in the maintenance mode. (Refer to Section 3.)
- (2) Turn the Jog dial, put a cursor (*) to "M0 : TAPE MAINTENANCE," and then press the JOG dial or SET button.
- (3) Put the cursor to "A4 MECHANISM" and press the JOG dial or SET button.
- (4) Put the cursor to "A40 : PATH MODE" and press the JOG dial or SET button.
- (5) Put the cursor to "Switching PB" and press the SET button. Then the "□" mark will be displayed at the upper right corner of the video monitor screen.

Note

Refer to "Section 3 Maintenance Mode" for more information about the maintenance mode.

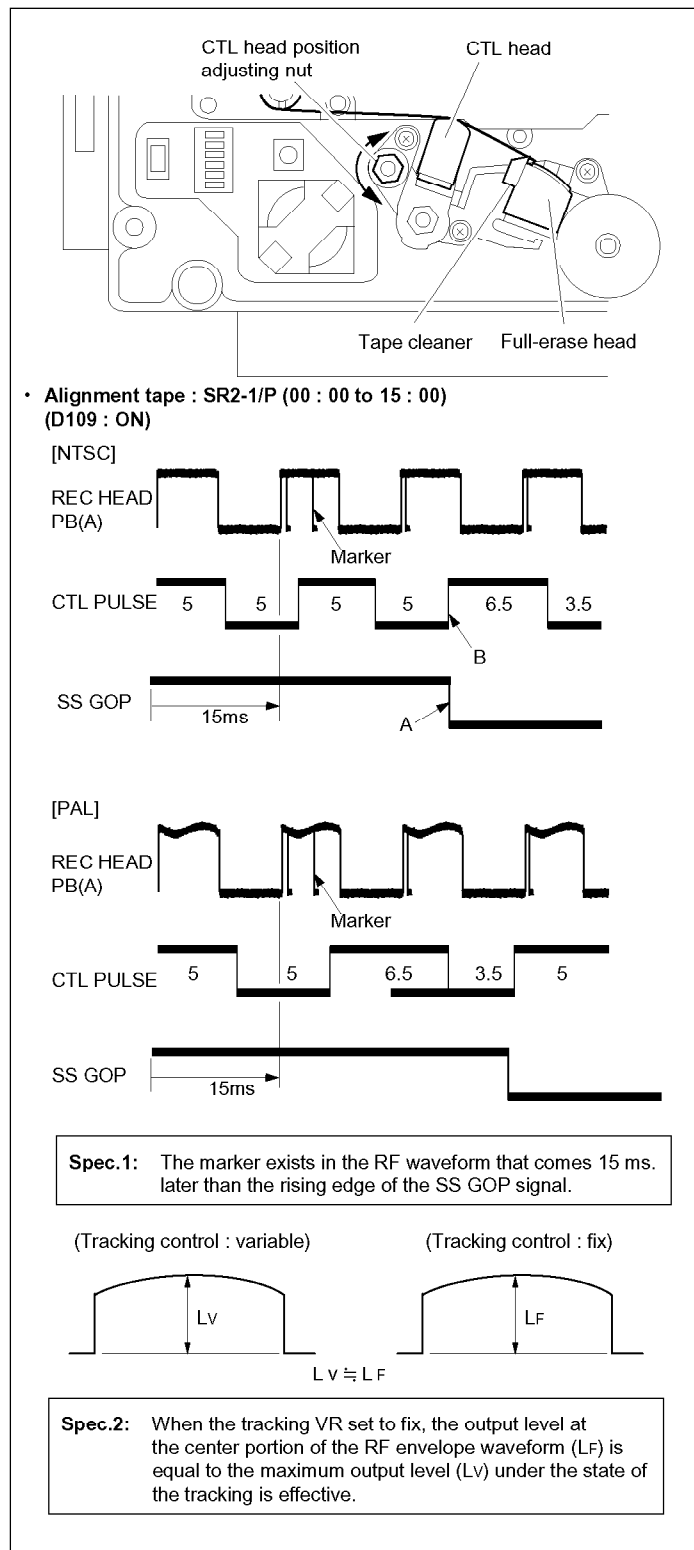
7. Play back the alignment tape

Play back the SR2-1/P (00 : 00 to 15 : 00).

8. Check the CTL head position

- (1) Check that the marker exists in the RF waveform that comes 15 ms. later than the rising edge of the SS GOP signal.
- (2) Press in the switch S101 on the SV-194A board and hold it more than three seconds to enable the tracking VR.
- (3) Turn the RV100 (tracking VR) on the SV-194A board so that the output level at the center portion of the RF envelope waveform is maximum and read the maximum level as L_v .
- (4) Press in the three seconds switch S101 on the SV-194A board and hold it more than three seconds to fix the tracking VR.
- (5) Read the output level at the center portion of the RF envelope waveform as L_f .
- (6) Check that the levels L_v and L_f satisfy the specification 2.

If the specification is not satisfied, perform procedures 9 and later.



Adjustment

Note

Perform the adjustment described below under the state of the tracking VR is not effective.
(Refer to Section 7-1-9.)

9. Adjust the CTL head position

Turn the CTL head position adjusting nut using nutdriver so that the output level at the center portion is maximum and the marker exists in the RF envelope waveform that comes 15 ms later than the rising edge of the SS GOP signal.

10. Recheck the CTL head position

Perform to procedures 6 through 8 again.

11. Check the CTL head height

(Refer to Section 7-6.)

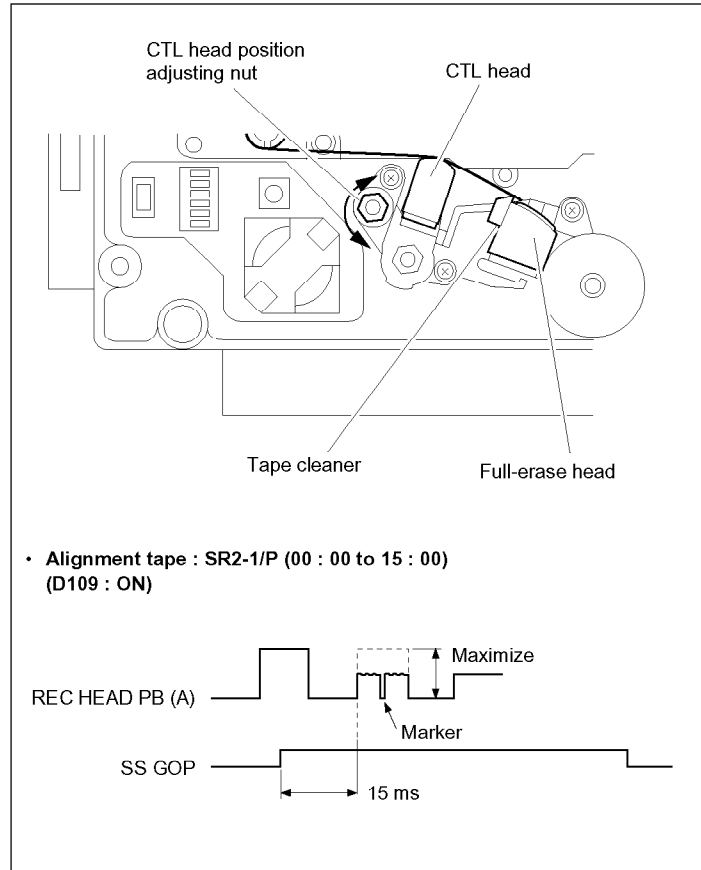
After above Adjustments

12. Adjust the AT head position

(Refer to Section 7-8.)

Note

After adjustment are completed, be sure to set the switch S100-1 back to OFF position.



7-8. AT Head Position Check and Adjustment

Notes

- The CTL head position adjustment of section 7-7 should be completed before performing this adjustment. The AT head position is adjusted with the CTL head position as a reference.
- The AT head position adjustment is closely related to the head height adjustment, and head azimuth adjustment.

Be sure to perform adjustments (or checks) according to “In Case the Adjustment is Performed” in this section when the AT head position is adjusted.

Tools

- Alignment tape SR2-1 (For 525/60 system) : 8-960-075-11
- Alignment tape SR2-1P (For 625/50 system) : 8-960-075-61
- Oscilloscope (Tektronix 2465B or equivalent)
- HN-257 mounted circuit board : A-8317-304-A

Preparation

1. Turn the power off

2. Connect the oscilloscope

Connect the oscilloscope as follows (See figure on the right side.);

CH-1 : CTL PULSE / HN-257 board

CH-2 : PB TC / HN-257 board

TRIG : SS GOP / HN-257 board

Oscilloscope setting :

CH-1 : 5 V/DIV

CH-2 : 1 V/DIV

TIME : 5 ms to 500 μ s/DIV

3. Switch setting

Set the switch S100-1 on the SV-194A board to ON. (Refer to Section 7-1-8.)

4. Set the alignment tape

Set the SR2-1/P and put a weight on the cassette so that it does not rise up.

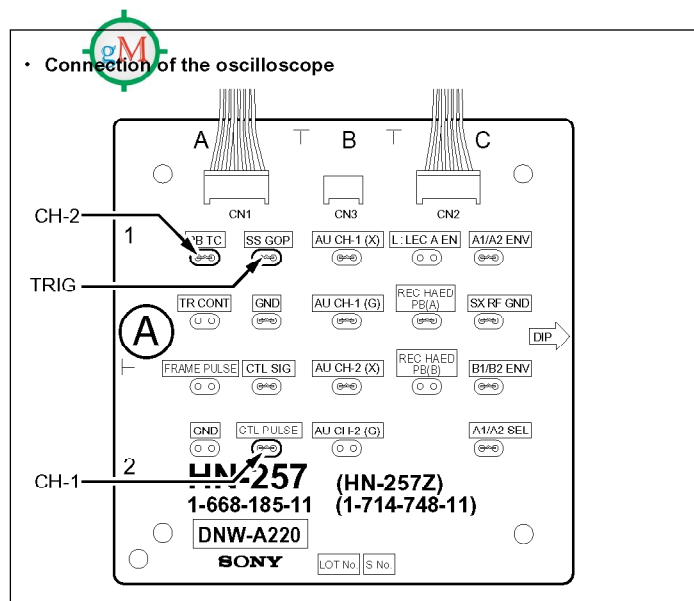
(Weight about 1000 g is suitable.)

Check

5. Turn the power on

6. Play back the alignment tape

Play back the SR2-1/P (00 : 00 to 15 : 00).



7. Check the AT head position

Check that the positional relationship between the rising edges of CTL's 65 : 35 pulse and PB TC's 65 : 35 waveform signals satisfies the specification.

If the specification is not satisfied, perform procedures 8 and later.

Adjustment

8. Loosen the screws

Loosen the securing screw shown in the figure by a turn.

9. Adjust the AT head position

- (1) Insert a 2 mm flatbladed screwdriver into the notch of the AT head assembly.
- (2) Adjust the AT head assembly position so that the specification is satisfied.

10. Tighten the screws

Tighten the screw loosened in procedure 8.

Tightening torque : $9 \times 10^{-2} \text{ N}\cdot\text{m}$
 $\{0.9 \text{ kgf}\cdot\text{cm}\}$

11. Recheck the AT head position

Refer to procedures 6 and 7 in this section.

After above Adjustments

12. Check the AT head height

(Refer to Section 7-9.)

13. Check the AT head azimuth

(Refer to Section 7-10.)

14. Check the AT head head-to-tape contact

(Refer to Section 7-11.)

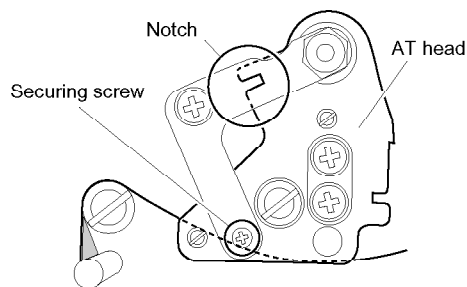
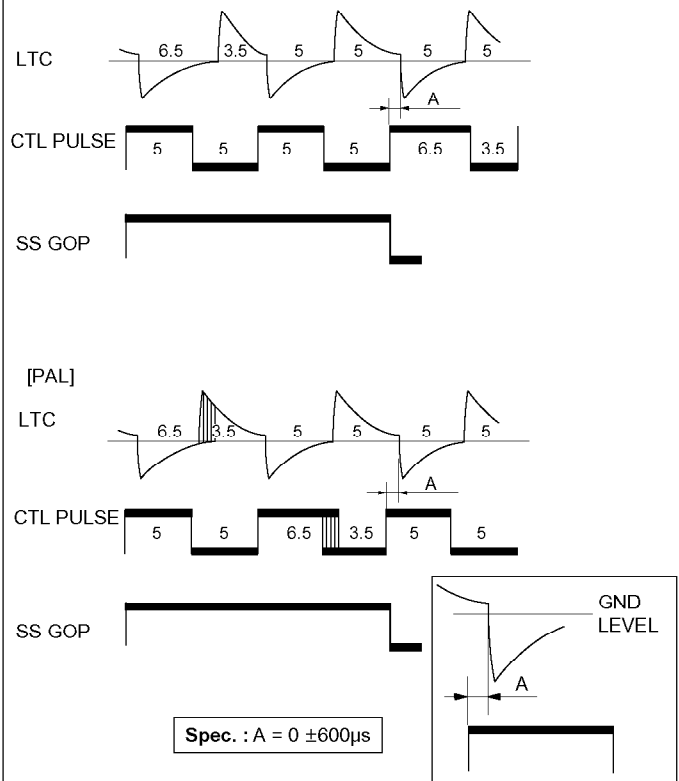
15. Check the AT head position

Refer to procedures 6 and 7 in this section.

Note

After adjustment are completed, be sure to set the switch S100-1 back to OFF position.

• Alignment Tape: SR2-1/P (00:00 to 15:00)
 [NTSC]



7-9. AT Head Height Check and Adjustment

Note

The AT head height adjustment is closely related to the azimuth adjustment, and head position adjustment.

Be sure to perform adjustments (or checks) according to "In Case the Adjustment is Performed" in this section when the AT head height is adjusted.

Tools

- Alignment tape CR8-1A (for analog Betacam, NTSC) : 8-960-097-45
- Alignment tape CR8-1A PS (for analog Betacam, PAL) : 8-960-098-45
- Oscilloscope (Tektronix 2465B or equivalent)
- Nutdriver (d = 4.5 mm) : 7-700-751-01

Preparation

1. Turn the power off

2. Connect the oscilloscope

Connect the oscilloscope as follows (See figure on the right side.);

CH-1 : TP800/PA-218 board
Ground at E800

CH-2 : TP801/PA-218 board
Ground at E801

Oscilloscope setting :

CH-1 : 200 mV/DIV

CH-2 : 200 mV/DIV

TIME : 5 ms/DIV

3. Switch setting

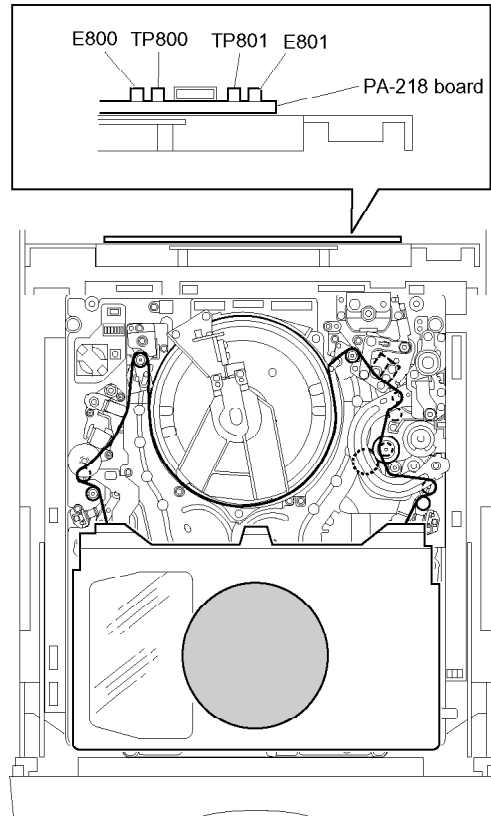
Set the switch S100-1 on the SV-194A board to ON. (Refer to Section 7-1-8.)

4. Set the alignment tape

Set the CR8-1A/PS and put a weight on the cassette so that it does not rise up.

Weight about 1000 g is suitable.

• Connection of the oscilloscope



Check

5. Turn the power on

6. Play back the alignment tape

Play back the 1 kHz, 0 VU signal portion (8 : 00 to 10 : 00) on the CR8-1A/PS.

7. Check the AT head height

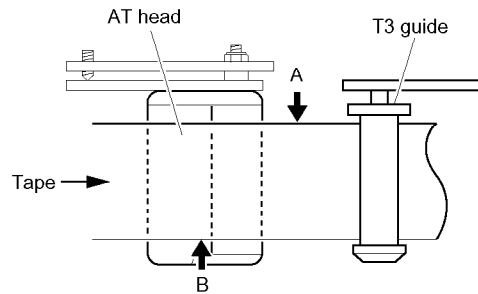
- (1) Check that both levels in CH-1 and CH-2 decrease when portion A of the tape shown in the figure is pressed down.

If both levels increase, perform procedure 8.

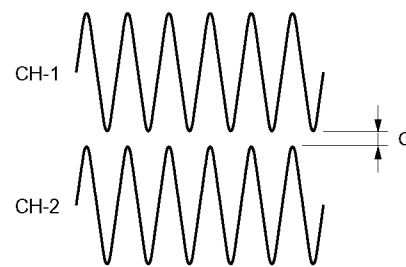
- (2) Check that both levels in CH-1 and CH-2 decrease when portion B of the tape is pushed up.

If both levels increase, perform procedure 9.

- Alignment tape : CR8-1A/CR8-1A PS (8 : 00 to 10 : 00)



<Audio output waveform>



Spec. : The portion C widens when pressing down and pushing up the alignment tape.

Adjustment

8. In case both levels increase when the tape is pressed down (Fig. 1)

Turn the height adjustment nut counterclockwise so that both output waveforms in CH-1 and CH-2 are maximum.

9. In case both levels increase when the tape is pushed up (Fig. 2)

Turn the height adjustment nut clockwise and adjust so that both output waveforms in CH-1 and CH-2 are maximum.

After above Adjustments

10. Adjust the AT head azimuth (only for the DNW-A25/A25P or the player of the DNW-A220/A220P.)

(Refer to Section 7-10.)

11. Adjust the AT head head-to-tape contact

(Refer to Section 7-11.)

12. Adjust the AT head position

(Refer to Section 7-8.)

13. Recheck the AT head height

(Refer to procedures 6 and 7 in this section.)

14. Re-check the AT head

Perform the procedures 10 to 12 again.

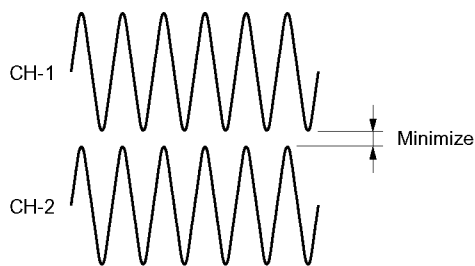
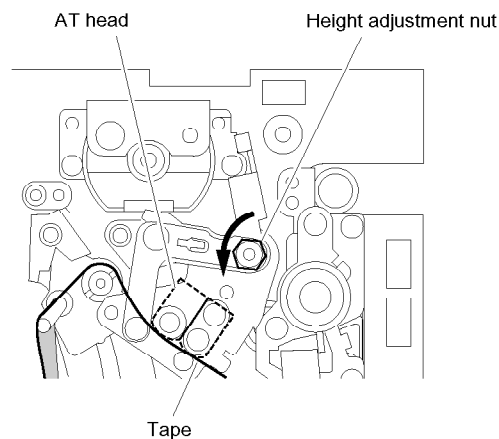
15. Locking compound applying

(Refer to Section 7-1-10.)

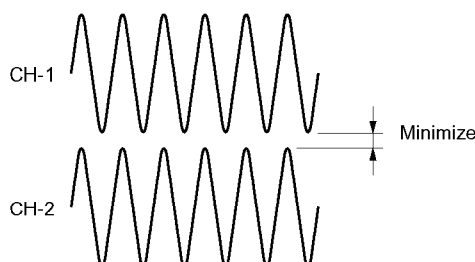
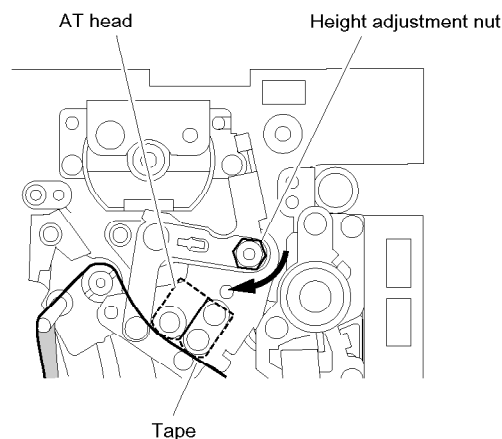
Note

After adjustment are completed, be sure to set the switch S100-1 back to OFF position.

<Fig.1>



<Fig.2>



7-10. AT Head Azimuth Check and Adjustment

Note

The AT head azimuth adjustment is closely related to head position adjustment and head height adjustment.

Be sure to perform adjustments (or checks) according to “In Case the Adjustment is Performed” in this section when the AT head azimuth is adjusted.

Tools

- Alignment tape CR8-1A (for analog Betacam, NTSC) : 8-960-097-45
- Alignment tape CR8-1A PS (for analog Betacam, PAL) : 8-960-098-45
- Oscilloscope (Tektronix 2465B or equivalent)

Preparation

1. Turn the power off

2. Connect the oscilloscope

Connect the oscilloscope as follows (See figure on the right side.);

CH-1 : TP800/PA-218 board

Ground at E800

CH-2 : TP801/PA-218 board

Ground at E801

Oscilloscope setting :

CH-1 : 50 mV/DIV

CH-2 : 50 mV/DIV

MODE : X-Y

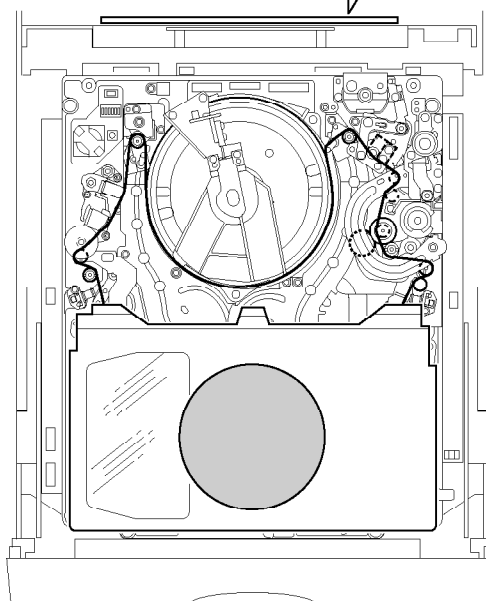
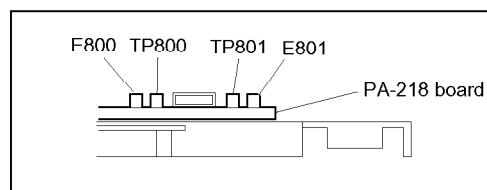
3. Switch setting

Set the switch S100-1 on the SV-194A board to ON. (Refer to Section 7-1-8.)

4. Set the alignment tape

Set the CR8-1A/PS and put a weight on the cassette so that it does not rise up.
(Weight about 1000 g is suitable.)

• Connection of the oscilloscope



Check

5. Turn the power on

6. Play back the alignment tape

Play back the 10 kHz, -10 VU signal portion (3 : 00 to 4 : 55) on the CR8-1A/PS.

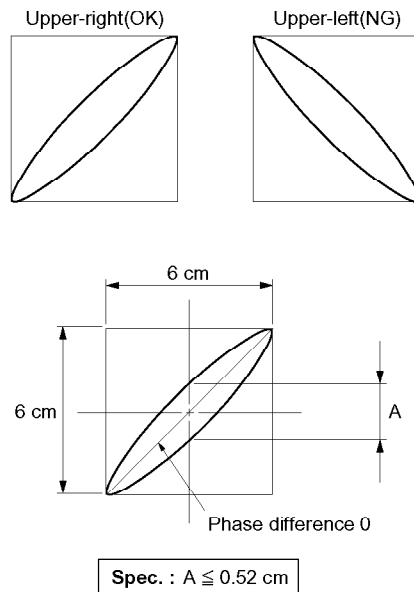
7. Check the AT head azimuth

- (1) Adjust the horizontal and vertical amplitudes of lissajous waveform to 6 cm each.
- (2) Check that the lissajous waveform holds the upper-right shape.
- (3) Check that the vertical amplitude at the center point in the horizontal direction satisfies the specification.
- (4) Repeat changing the mode STOP to PLAY three times, check that the waveform satisfies the specification on every PLAY mode.
- (5) Repeat changing the mode REW to PLAY three times, check that the waveform satisfies the specification on every PLAY mode.
- (6) Repeat changing the mode EJECT to PLAY three times, check that the waveform satisfies the specification on every PLAY mode.

If the specification is not satisfied in any steps (3), (4), (5) or (6), perform procedures 8 and later.

- Alignment tape : CR8-1A/CR8-1A PS (3 : 00 to 4 : 55)

<Lissajous waveform>



Adjustment

8. Adjust the AT head azimuth

Turn the azimuth adjustment screw so that the specification is satisfied.

After above Adjustments

9. Adjust the AT head head-to-tape contact

(Refer to Section 7-11.)

10. Adjust the AT head position

(Refer to Section 7-8.)

11. Check the AT head height

(Refer to Section 7-9.)

12. Check the AT head azimuth

(Refer to procedures 6 and 7 in this section.)

13. Re-check the AT head

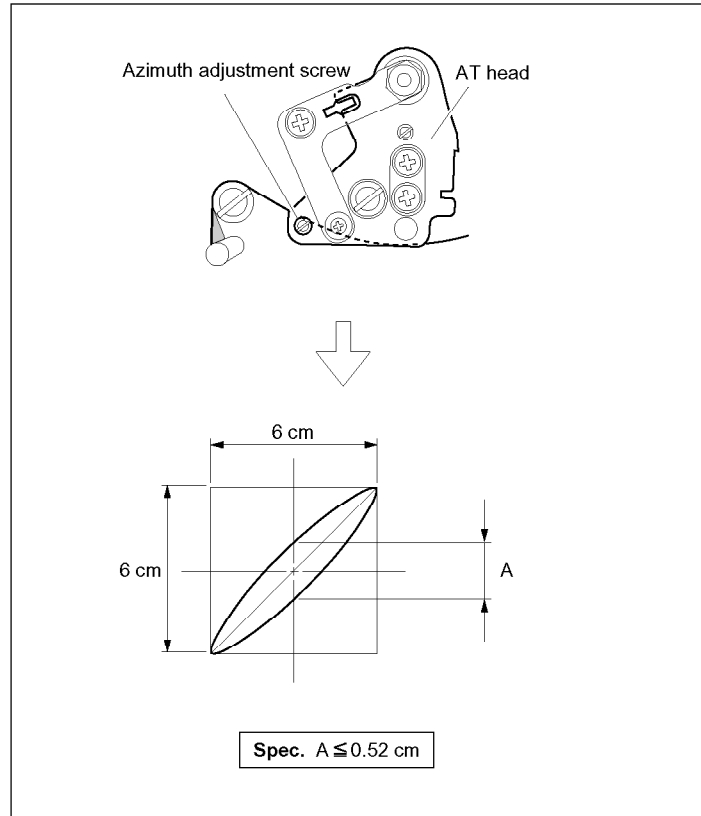
(Reperform the procedures 9, 10 and 11 again.)

14. Locking compound applying

(Refer to Section 7-1-10.)

Note

After adjustment are completed, be sure to set the switch S100-1 back to OFF position.



7-11. AT Head Head-to-tape Contact Check

Tools

- Alignment tape CR8-1A (For analog Betacam, NTSC) : 8-960-097-45
- Alignment tape CR8-1A PS (For analog Betacam, PAL) : 8-960-098-45
- Oscilloscope (Tektronix 2465B or equivalent)
- Wooden skewer

Preparations

1. Turn the power off

2. Connect the oscilloscope

Connect the oscilloscope as follows (See figure on the right side.);

CH-1 : TP800/PA-218 board

Ground at E800

CH-2 : TP801/PA-218 board

Ground at E801

Oscilloscope setting :

CH-1 : 200 mV/DIV

CH-2 : 200 mV/DIV

TIME : 1 ms/DIV

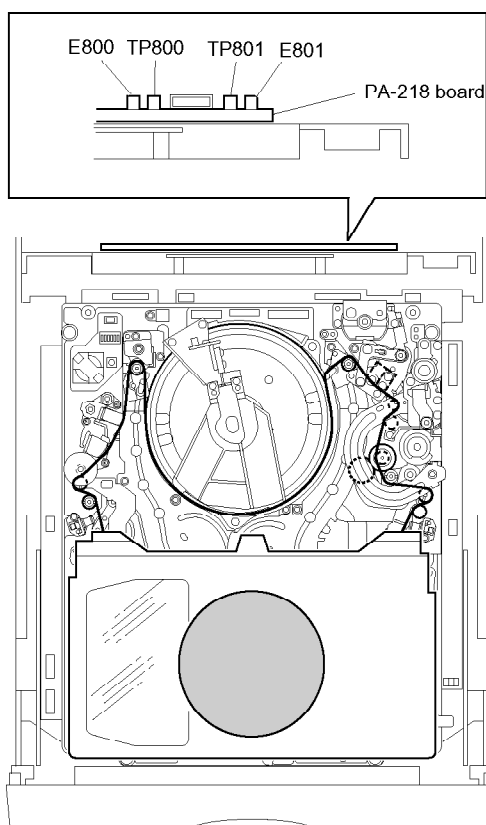
3. Switch setting

Set the switch S100-1 on the SV-194A board to ON. (Refer to Section 7-1-8.)

4. Set the alignment tape

Set the CR8-1A/PS and put a weight on the cassette so that it does not rise up.
(Weight about 1000 g is suitable.)

• Connection of the oscilloscope



Check

5. Turn the power on

6. Play back the alignment tape

Play back the 10 kHz, -10 VU signal portion (3 : 00 to 4 : 55) on the CR8-1A/PS.

7. Check the AT head head-to-tape contact

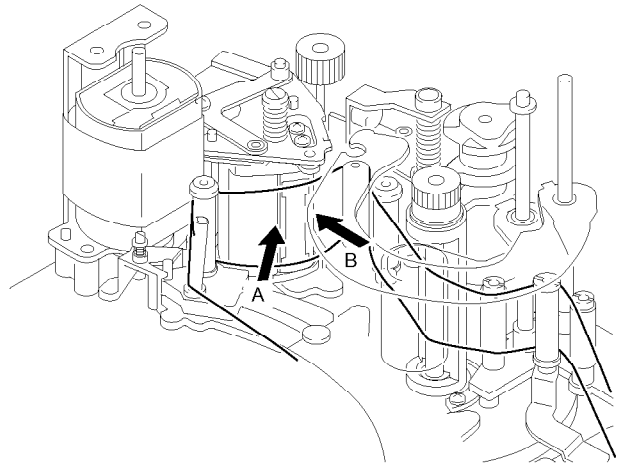
- (1) Push portions A and B of the tape shown in the figure slightly with a wooden skewer. (It means increasing the tape's wrapping angle against the AT head.)
- (2) Check that both increasing values of the output levels in CH-1 and CH-2 satisfy the specification.

If the specification is not satisfied, perform the AT head removal and installation again. (Refer to Section 6-15.)

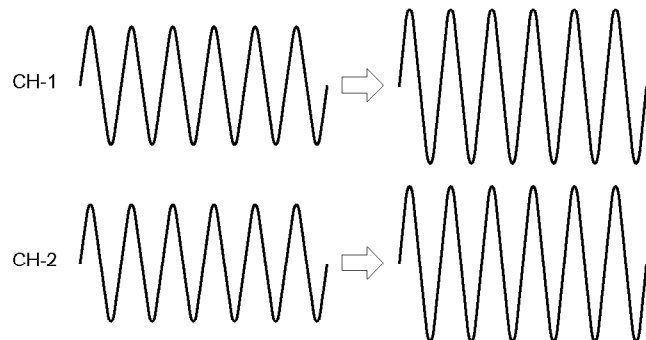
Note

After adjustment are completed, be sure to set the switch S100-1 back to OFF position.

- Alignment tape : CR8-1A/CR8-1A PS (3 : 00 to 4 : 55)



<AUDIO output waveform>



Spec. : Both increasing values of the output levels in CH-1 and CH-2 are within 5%.



Section 8

Electrical Alignment after Drum Replacement

8-1. Notes on Electrical Alignment

- Never touch (or turn) the adjustment parts which are not described in Section 8.
If turned once, the parts require the electrical adjustments that are described in Section 9.
- Do not execute adjustment items nor change data in the maintenance mode which are not described in Section 5.

If executed or changed carelessly, turn off the power of the DNW-A28/A28P or execute “ALL DATA PREVIOUS” in each NV-RAM control menu so as not to save the data. (Never execute “SAVE ALL ADJUST DATA” in each NV-RAM control menu.)

Note

- A006 : NV RAM CONTROL (in the servo system adjusted data save mode) have no function “ALL DATA REVIOUS.”
- For the DNW-A28P, DM-114P board is used instead of the DM-114 board. For convenience in explaining, both DM-114 and DM-114P boards are represented as DM-114 simply.

Equipment and Tools Required

Regarding the measurement equipment and tools used in this section, refer to “1-17-2. Equipment for Adjustment.”

Content of Alignment Tapes

Regarding the contents of alignment tapes used in this section, refer to “1-18. Alignment Tape.”

Operation of the Maintenance Mode

Entering the maintenance mode

Press S200 (B-1) on the SY-259B board. (For more details, refer to Section 3-1.)

Starting up the Maintenance Mode from Front Panel

The maintenance mode can be started by the operation below when the S201-2 (B-1) switch on the SY-259B board is set to ON (upper).

- (1) Press the MENU button once to start up the setup menu.

Note

If menu is not start up, set the “SUPER” of sub menu to “ALL/MENU” and push the MENU button once again. (Regarding the sub menu setting, refer to Section 2 of operation manual.)

- (2) Press the SET button while pressing the CTL/TC/U-BIT button.
- (3) The mode screen in the maintenance mode is displayed on the video monitor.

Shifting the next menu

- (1) Press the JOG dial to enter the JOG mode.
- (2) Turn the JOG dial to set the cursor * to the desired menu (or mode).
- (3) Press the SET button.

Exiting from the current menu (or mode)

Press the MENU button.

Note

Press the MENU button several times to exit from the maintenance mode.

Saving the data

- (1) Turn the JOG dial to set the cursor * to A006 : NV-RAM CONTROL or A1F : NV-RAM CONTROL.
- (2) Press the JOG dial or SET button.
- (3) Turn the JOG dial to set the cursor * to A006 : “SAVE SERVO ADJUST DATA” or A1F: “SAVE ALL ADJUST DATA.”
- (4) Press the SET button.

8-2. Servo/EQ Adjustment after Drum Replacement

Adjustment Items

No.	Item	Adjustment point	Remarks
1	Drum Phase adjustment		
	525/60 system :	A004 : RF SWITCHING POS.	Alignment Tape SR2-1
	Data save	A006 : NV-RAM CONTROL	
	625/50 system :	A004 : RF SWITCHING POS.	Alignment Tape SR2-1P
	Data save	A006 : NV-RAM CONTROL	
2	PB Equalizer adjustment	A11 : EQUALIZER	Alignment Tape SR5-1/SR5-1P
3	REC Current adjustment	A12 : REC CURRENT	Blank Tape
	Data save	A1F : NV-RAM CONTROL	

Preparation

1. Wait 20 minutes or more after turning on the power.
2. Setting of Front Panel
REC INHI→ OFF

8-2-1. Drum Phase Adjustment

The drum phase adjustment is required for both 525/60 and 625/50 systems.

For 525/60 System

1. Select the 525/60 system for the unit.
If the 625/50 system is selected, switch the unit to the 525/60 system by setting basic menu ITEM-013 : 525/625 SYSTEM SELECT. Then turn the power off and on again. (for detail, refer to Section 1-19-3.)
2. Prepare the alignment tape SR2-1 which was cued up to 00 : 25 : 00 : 00 of time-code in advance.
3. Press S200 (B-1) on the SY-259B board to enter the maintenance mode.
4. Select M0 : TAPE MAINTENANCE.
5. Select A0 : SERVO ADJUST.
6. Select A00-01 : SERVO ADJUST.
 - An inserted tape will be ejected automatically at the time.
7. Select A004 : RF SWITCHING POS.
8. Select AUTO by shifting the cursor *.
9. Press SET button and insert the alignment tape SR2-1. Then ;
 - Automatic drum phase adjustment will be started.
 - After the adjustment is normally completed, the message "ADJUST COMPLETE" will be displayed on the video monitor and the alignment tape will be ejected automatically.
10. Press the MENU button to return to SERVO ADJUST display.
11. Select A006 : NV-RAM CONTROL.
12. Execute "SAVE SERVO ADJUST DATA."
 - After saving operation is normally completed, the message "DATA SAVED" will be displayed on the video monitor.

For 625/50 System

13. Switch the unit to the 625/50 system by setting basic menu ITEM-013 : 525/625 SYSTEM SELECT referring to the operation manual. Then turn the power off and on again. (For detail, refer to Section 1-19-3.)
14. Prepare the alignment tape SR2-1P which was cued up to 00 : 25 : 00 : 00 of time-code in advance.
15. Press S200 (B-1) on the SY-259B board to enter the maintenance mode.
16. Select M0 : TAPE MAINTENANCE.
17. Select A0 : SERVO ADJUST.
18. Select A00-01 : SERVO ADJUST.
 - An inserted tape will be ejected automatically at the time.
19. Select A004 : RF SWITCHING POS.
20. Select AUTO by shifting the cursor *.
21. Press SET button and insert the alignment tape SR2-1P. Then ;
 - Automatic drum phase adjustment will be started.
 - After the adjustment is normally completed, the message "ADJUST COMPLETE" will be displayed on the video monitor and the alignment tape will be ejected automatically.
22. Press the MENU button to return to SERVO ADJUST display.
23. Select A006 : NV-RAM CONTROL.
24. Execute "SAVE SERVO ADJUST DATA."
 - After saving operation is normally completed, the message "DATA SAVED" will be displayed on the video monitor.
25. For DNW-A28 only
Return the unit to 525/60 system by setting basic menu ITEM-013 : 525/625 SYSTEM SELECT.

8-2-2. PB Equalizer Adjustment

1. Insert the alignment tape SR5-1 (for DNW-A28) / SR5-1P (for DNW-A28P), then cued up to 00 : 03 : 00 : 00 of time code in advance.
2. Press S200 (B-1) on the SY-259B board to enter the maintenance mode.
3. Select M0 : TAPE MAINTENANCE.
4. Select A1 : RF ADJUST.
5. Select A11 : EQUALIZER.
6. Select ALL by shifting the cursor * in A11 : EQUALIZER menu.
7. Press SET button.
Then;
 - Automatic PB equalizer adjustment will be started.
 - After the adjustment is normally completed, the message "Auto Adjust Complete" will be displayed on the video monitor.
8. Press the MENU button to return to RF ADJUST MODE display.

Perform Section 8-2-3. "Recording Current Adjustment" following the completion of this adjustment.

8-2-3. Recording Current Adjustment

1. Select A12:REC CURRENT.
2. Select ALL by shifting the cursor * in A12:REC CURRENT menu.
3. Press SET button.
 - An inserted alignment tape will be ejected automatically at the time.
 - The message "Insert Blank Tape" will be displayed on the video monitor.
4. Insert a blank SX tape.
Then;
 - Automatic recording current adjustment will be started.
 - After the adjustment is normally completed, the message "Auto Adjust Complete" will be displayed on the video monitor.
5. Press the MENU button to return to RF ADJUST MODE display.
6. Select A1F : NV-RAM CONTROL.
7. Execute "SAVE ALL ADJUST DATA."
 - After saving operation is normally completed, the message "Save Complete" will be displayed on the video monitor.
8. Return to the operation mode by pressing MENU button four times.
9. Eject the blank SX tape.

8-3. Electrical Adjustment for Analog Video Playback

Adjustment Items

No.	Item	Adjustment point	Remarks
1	Preparation		
2	EQ RF output level adjustment		
	METAL Y	A30 : EQ VR : RF GAIN METAL-Y-A A30 : EQ VR : RF GAIN METAL-Y-B	TP101/DM-114
	METAL C	A30 : EQ VR : RF GAIN METAL-C-A A30 : EQ VR : RF GAIN METAL-C-B	TP301/DM-114
	OXIDE C	A30 : EQ VR : RF GAIN OXIDE-C-A A30 : EQ VR : RF GAIN OXIDE-C-B	TP301/DM-114
	OXIDE Y	A30 : EQ VR : RF GAIN OXIDE-Y-A A30 : EQ VR : RF GAIN OXIDE-Y-B	TP101/DM-114
	Saving data	A3F : NV-RAM CONTROL	
3	DM RF output level pre-adjustment		
	METAL Y	RV111/DM-114	TP107/DM-114
	METAL C	RV311/DM-114	TP307/DM-114
	OXIDE C	RV312/DM-114	TP307/DM-114
	OXIDE Y	RV112/DM-114	TP107/DM-114
4	OMC carrier balance adjustment		
	OXIDE Y	RV107/DM-114, RV108/DM-114	TP111/DM-114
	OXIDE C	RV307/DM-114, RV308/DM-114	TP309/DM-114
	METAL C	RV305/DM-114, RV306/DM-114	TP309/DM-114
	METAL Y	RV105/DM-114, RV106/DM-114	TP111/DM-114
5	OMC carrier balance adjustment (provisional)		
	Note This section explains a provisional adjustment for OMC carrier balance without using a spectrum analyzer, as opposed to the adjustment using the spectrum analyzer described above (No.4). Perform this provisional adjustment only when the spectrum analyzer is not available for an urgent maintenance. Be sure to readjust using the spectrum analyzer at a later date.		
6	Demodulator limiter balance adjustment		
	Y	RV502/DM-114	TP502/DM-114
	C	RV702/DM-114	TP1201/DM-114
7	PB frequency response adjustment		
	METAL Y	A32 : DM VR 1 : EQ1 METAL-Y-A A32 : DM VR 1 : EQ1 METAL-Y-B	SDI OUTPUT (Y CH)
	METAL C	A32 : DM VR 1 : EQ1 METAL-C-A A32 : DM VR 1 : EQ1 METAL-C-B	SDI OUTPUT (R-Y/B-Y CH)
	OXIDE Y	A32 : DM VR 1 : EQ1 OXIDE-Y-A A32 : DM VR 1 : EQ1 OXIDE-Y-B	SDI OUTPUT (Y CH)
	OXIDE C	A32 : DM VR 1 : EQ1 OXIDE-C-A A32 : DM VR 1 : EQ1 OXIDE C B	SDI OUTPUT (R-Y/B-Y CH)
	Saving data	A3F : NV-RAM CONTROL	

OMC; Over-Modulation Compensation circuit

(Continued)

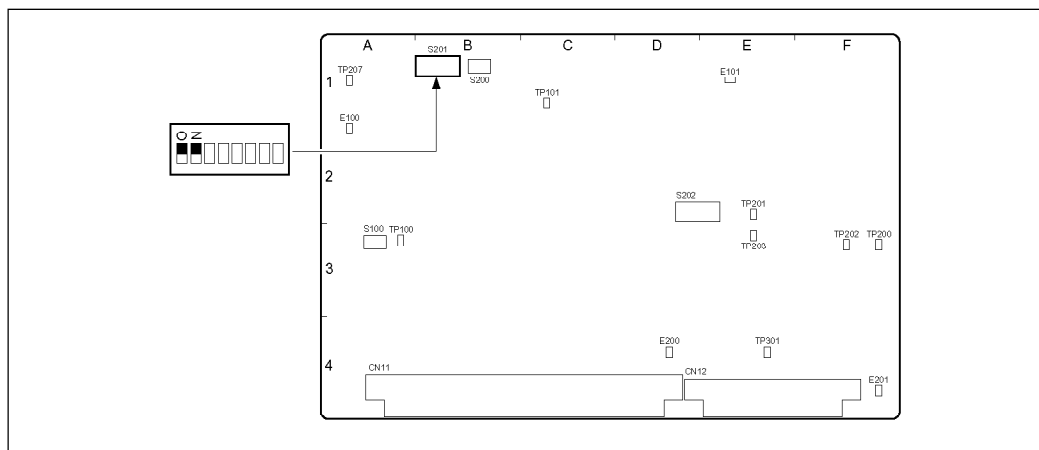
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No. Item	Adjustment point	Remarks
8	DM RF output level adjustment	
	METAL Y ⚙RV111/DM-114	TP107/DM-114
	METAL C ⚙RV311/DM-114	TP307/DM-114
	OXIDE C ⚙RV312/DM-114	TP307/DM-114
	OXIDE Y ⚙RV112/DM-114	TP107/DM-114
9	RF envelope adjustment	
	Y ⚙RV113/DM-114	TP113/DM-114
	C ⚙RV313/DM-114	TP312/DM-114
10	Impact error offset adjustment	
	Y ⚙RV1301/DM-114	Video monitor
	C ⚙RV1501/DM-114	
11	TBC Y/C delay adjustment	
	METAL ⚙RV1601/DM-114 ⚙RV1602/DM-114	SDI OUTPUT
	OXIDE ⚙RV1603/DM-114 ⚙RV1604/DM-114	SDI OUTPUT

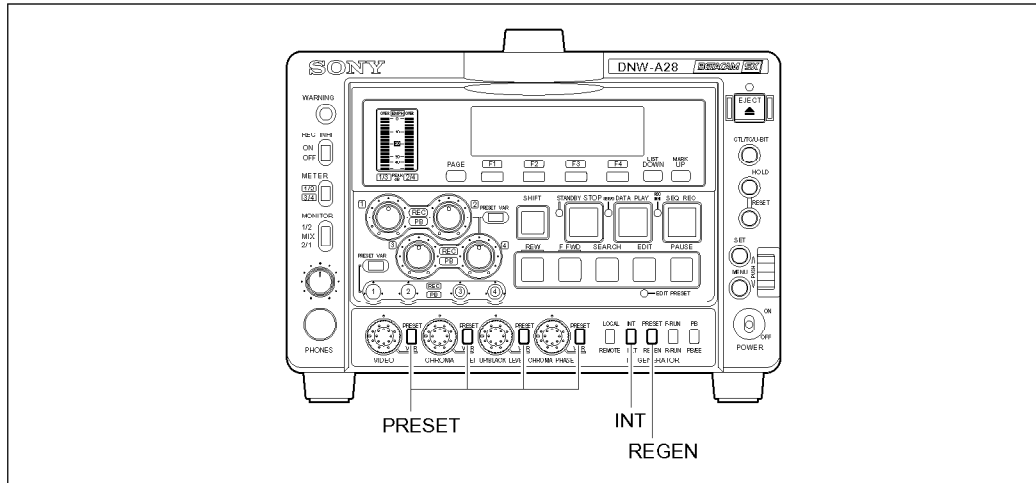
8-3-1. Preparation

Make a photocopy of setting check sheets given in the Appendix A and write down setup conditions in the check sheets.

1. Setting of S201/SY-259B board



2. Setting of Front Panel



3. Video System Setting

(Regarding the video system setting, refer to Section 1-19-3.)

- For DNW-A28, ensure that the unit is set to 525/60 system with the setup menu ITEM-013.
- For DNW-A28P, ensure that the unit is set to 625/50 system with the setup menu ITEM-013.

4. Sub menu Setting

(Regarding the sub menu setting, refer to Section 2 of operation manual.)

- General setting page
SUPER → ON
- Video setting page
PROCESS CONTROL → PANEL
Y/C DLY → 800 PRESET
SYNC PH → 80
SC PH → 80

5. Setup menu setting

(Regarding the setup menu setting, refer to Section 6 of operation manual.)

- For DNW-A28
ITEM-713 : VIDEO SETUP REFERENCE LEVEL
SUB-ITEM 0 : MASTER LEVEL → 7.5 %
1 : INPUT LEVEL → MSTER
2 : INPUT VBLK CNT → THROU
3 : BETACAM PB LEVEL → MSTER
4 : OUTPUT LEVEL → MSTER

Note

It may be that “SUB-ITEM 1 : INPUT LEVEL” and “SUB-ITEM 2 : INPUT VBLK CNT” will not display.

- For DNW-A28P
No setting required

6. Time data display setting

Press the CTL/TC/U-BIT button to indicate TC on the display.

Entering the maintenance mode

Enter the maintenance mode in the following way, A or B.

A : Press the MENU button to enter the setup menu when the S201-2 (B-1) switch on the SY-259B board is set to ON (upper).

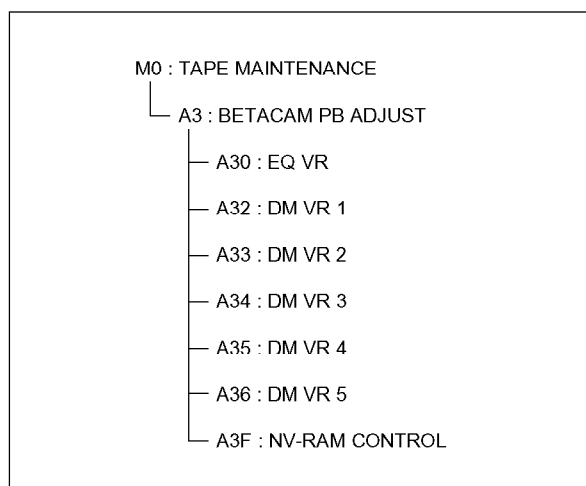
Press the SET button while pushing the CTL/TC/U-BIT button to start up the maintenance mode.

B : Press S200 (B-1) on SY-259B board to enter the maintenance mode.

Notes

The operation of the maintenance mode is described as follows.

The sub mode and menus of the maintenance mode that are used in this section are shown below.



• Shifting to the next menu

- (1) Press the JOG dial to enter the JOG mode.
- (2) Turn the JOG dial to set the cursor * to the desired menu (or mode).
- (3) Press the SET button.

• Exiting from the current menu (mode)

- (1) Press the MENU button.

Note

Press the MENU button several times to exit from the maintenance mode.

• Changing the data value

- (1) Turn the JOG dial to set the cursor * to the item to be changed.
- (2) Press and Turn the JOG dial slowly. = **Data value changes.**

Up word direction : the data value decreases
(FF follows 00)

Down word direction : the data value increases
(00 follows FF)

Note

During adjustment, change the rotational direction of the JOG dial observing the change of waveform that is displayed on the measuring equipment.

• Saving the data

- (1) Turn the JOG dial to set the cursor * to A3F : NV-RAM CONTROL.
- (2) Press the SET button once.
- (3) Turn the JOG dial to set the cursor * to "SAVE ALL ADJUST DATA."
- (4) Press the SET button once.

• Tape operations (play back, rewind, fast-forward, etc.) in the maintenance mode

- (1) Enter any of menu A30 to A36.
- (2) To pause the maintenance mode operation, press the SET button. = **It enables tape operation.**

Note

The display of the time data display area on the FL display panel is changed to the time code display in the normal operation mode. And the ■ mark is displayed at the top right corner of menu screen on the monitor.

- (3) After the tape operation is completed, press the MENU button to cancel the pause of maintenance mode.

Note

The displays of the time data display area and monitor are returned to their previous states.

8-3-2. EQ RF Output Level Adjustment

Note

Allow about a minute after the alignment tape (Betacam SP cassette) is inserted.

Measuring equipment : Oscilloscope
(20 MHz BW LIMIT : ON)

Preparation/Setting

1. Select A30 : EQ VR of the maintenance mode.
2. Connect and set the oscilloscope as follows:
CH-1 : TP112/DM-114 (*N-4), DC 1 V/DIV
GND : E103/DM-114 (*N-4)
CH-2 : TP101/DM-114 (*P-4), AC 100 mV/DIV,
2 ms/DIV
GND : E101/DM-114 (*P-4)
Trigger : CH-1

1. METAL Y adjustment

1. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS. Press the MENU button and perform the adjustment.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Notes

Adjust respectively for Y-A and Y-B channels.
Observing the Y-A channel, set the trigger of oscilloscope to the negative (−) slope.
Observing the Y-B channel, set the trigger of oscilloscope to the positive (+) slope.

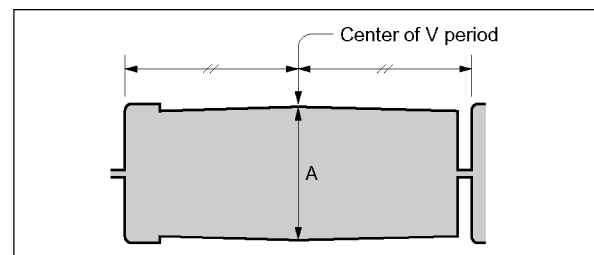
Adjustment points :

Y-A channel : A30 : EQ VR : RF GAIN METAL-Y-A

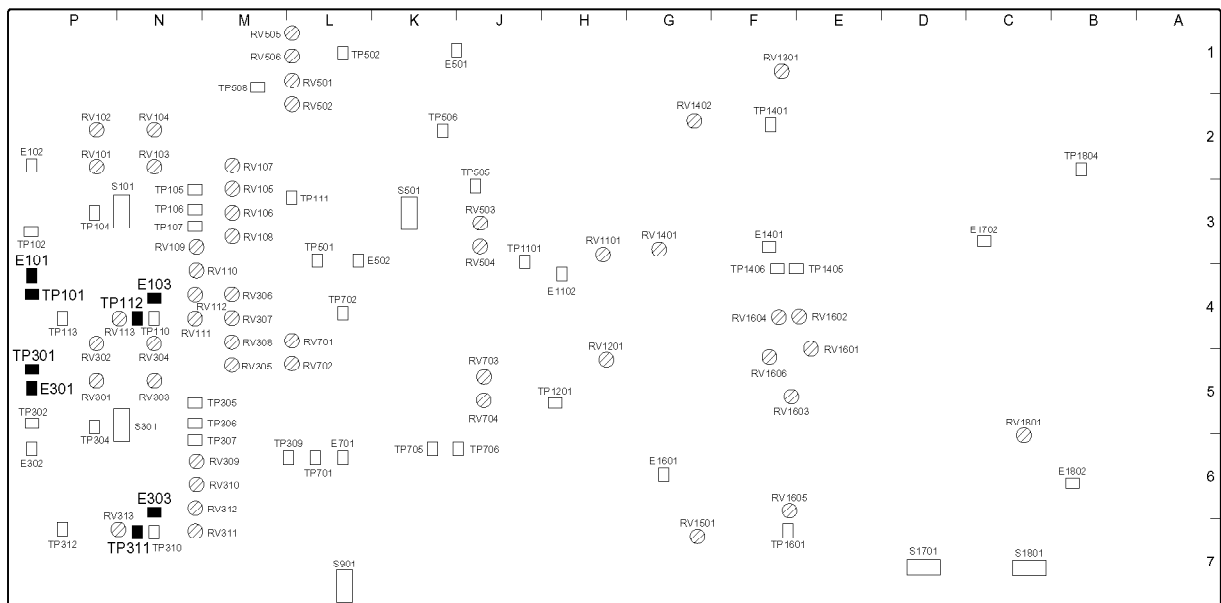
Y-B channel : A30 : EQ VR : RF GAIN METAL-Y-B

Specifications (Y-A and Y-B channels) :

$A = 380 \pm 20 \text{ mV p-p}$



2. Press the SET button and stop the playback of the alignment tape.



2. METAL C adjustment

1. Change the connection of the oscilloscope as follows:

CH-1 : TP311/DM-114 (*N-7)
GND : E303/DM-114 (*N-6)
CH-2 : TP301/DM-114 (*P-5)
GND : E301/DM-114 (*P-5)

Trigger : CH-1

2. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS. Press the MENU button and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Notes

Adjust respectively for C-A and C-B channels.

Observing the C-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the C-B channel, set the trigger of oscilloscope to the positive (+) slope.

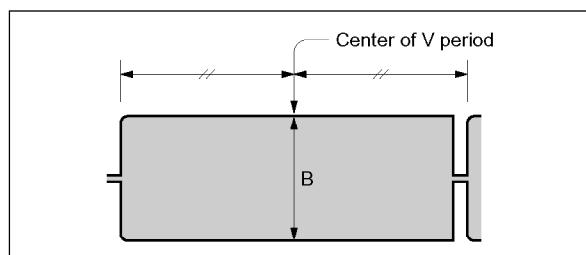
Adjustment points :

C-A channel : A30 : EQ VR : RF GAIN METAL-C-A

C-B channel : A30 : EQ VR : RF GAIN METAL-C-B

Specifications (C-A and C-B channels) :

$B = 380 \pm 20 \text{ mV p-p}$



3. OXIDE C adjustment

1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS. Press the SET button and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Notes

Adjust respectively for C-A and C-B channels.

Observing the C-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the C-B channel, set the trigger of oscilloscope to the positive (+) slope.

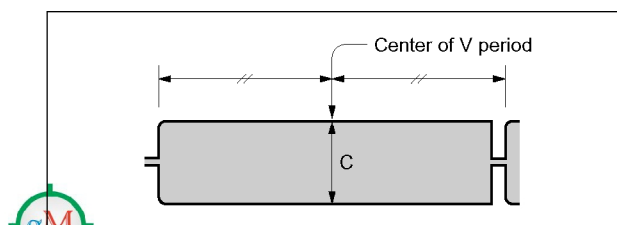
Adjustment points :

C-A channel : A30 : EQ VR : RF GAIN OXIDE-C-A

C-B channel : A30 : EQ VR : RF GAIN OXIDE-C-B

Specifications (C-A and C-B channels):

$C = 250 \pm 20 \text{ mV p-p}$



2. Press the SET button and stop the playback of the alignment tape.

3. Press the SET button and eject the alignment tape.

4. OXIDE Y adjustment

1. Change the connection of the oscilloscope as follows:

CH-1 : TP112/DM-114 (*N-4)
GND : E103/DM-114 (*N-4)
CH-2 : TP101/DM-114 (*P-4)
GND : E101/DM-114 (*P-4)

Trigger : CH-1

2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS. Press the SET button and perform the adjustment.
(DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Notes

Adjust respectively for Y-A and Y-B channels.

Observing the Y-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the Y-B channel, set the trigger of oscilloscope to the positive (+) slope.

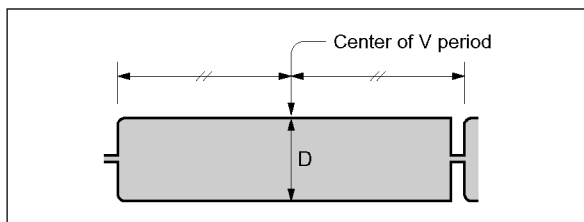
Adjustment points :

Y-A channel : A30 : EQ VR : RF GAIN OXIDE-Y-A

Y-B channel : A30 : EQ VR : RF GAIN OXIDE-Y-B

Specifications (Y-A and Y-B channels) :

$D = 250 \pm 20$ mV p-p



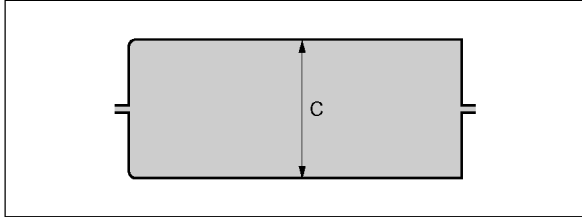
3. Press the SET button and eject the alignment tape CR5-2A/CR5-2A PS.
4. To exit from A30 : EQ VR, press the MENU button on the control panel twice.

5. Saving data

1. Select A3F : NV-RAM CONTROL of the maintenance mode, then execute "SAVE ALL ADJUST DATA."
2. Check that the message "Save Complete" is displayed on the video monitor.
3. To exit from A3F : NV-RAM CONTROL, press the MENU button once.
4. To exit the maintenance mode, press the MENU button three times.

3. OXIDE C adjustment

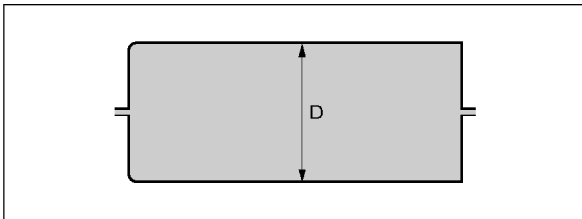
1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
Adjustment point : ●RV312/DM-114 (*N-6)
Specification : $C = 400 \pm 40$ mV p-p



2. Stop the playback of the alignment tape.

4. OXIDE Y adjustment

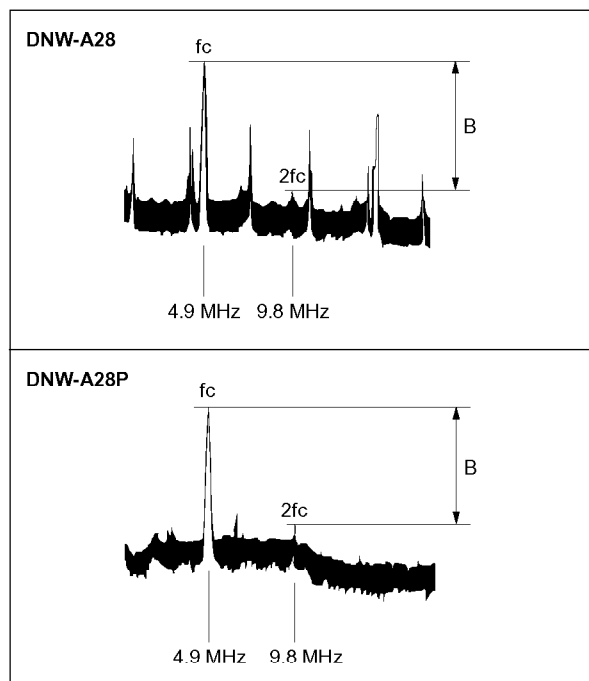
1. Change the connection of the oscilloscope as follows:
CH-1 : TP112/DM-114 (*N-4)
GND : E103/DM-114 (*N-4)
CH-2 : TP107/DM-114 (*N-3)
GND : E103/DM-114 (*N-4)
2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
Adjustment point : ●RV112/DM-114 (*N-4)
Specification : $D = 400 \pm 40$ mV p-p



3. Stop the playback of the alignment tape.

2. OXIDE C adjustment

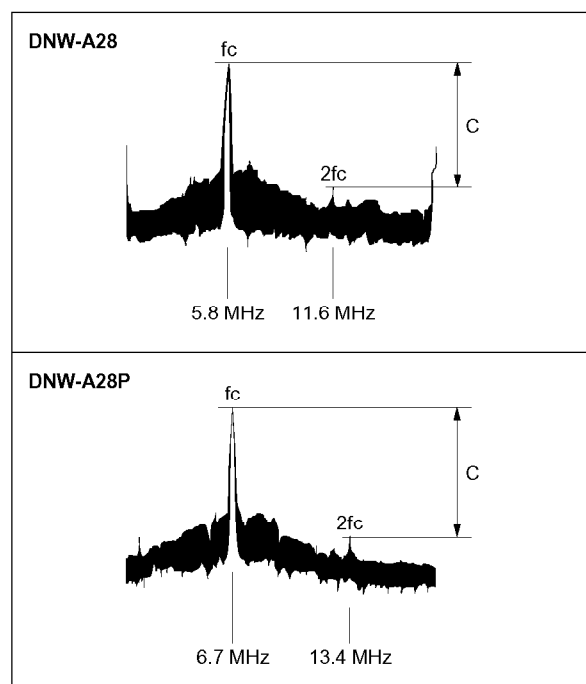
1. Change the connection of the oscilloscope as follows:
CH-1 : TP311/DM-114 (*N-7)
GND : E303/DM-114 (*N-6)
CH-2 : TP309/DM-114 (C-4)
GND : E701/DM-114 (*L-6)
2. Play back the pulse & bar signal portion (9 : 00 to 11 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
Adjustment points : \odot RV307/DM-114 (*M-4) and \odot RV308/DM-114 (*M-4)
Specification : $B \geq 35$ dB



3. Eject the alignment tape.

3. METAL C adjustment

1. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment points : \odot RV305/DM-114 (*M-5) and \odot RV306/DM-114 (*M-4)
Specification : $C \geq 40$ dB



2. Stop the playback of the alignment tape.

4. METAL Y adjustment

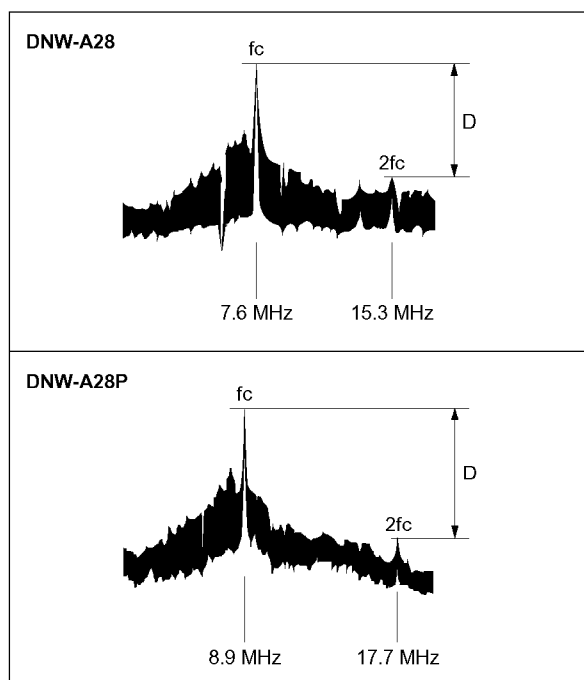
1. Change the connection of the oscilloscope as follows :

CH-1 : TP112/DM-114 (*N-4)
GND : E103/DM-114 (*N-4)
CH-2 : TP111/DM-114 (*L-3)
GND : E502/DM-114 (*L-3)

2. Play back the flat filed signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Adjustment pointss : ●RV105/DM-114 (*M-3) and
●RV106/DM-114 (*M-3)

Specification : $D \geq 40$ dB



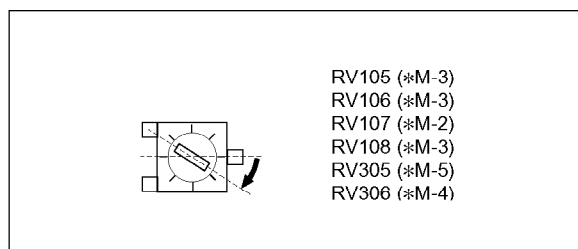
3. Stop the playback of the alignment tape.

8-3-5. OMC Carrier Balance Adjustment (Provisional)

Notes

- This section explains a provisional adjustment for OMC carrier balance without using a spectrum analyzer. If Section 8-3-4. "OMC Carrier Balance Adjustment" is completed, this adjustment is not required.
- Perform this provisional adjustment only when the spectrum analyzer is not available for an urgent maintenance. At a later date, be sure to readjust using the spectrum analyzer referring to Section 8-3-4.

Set the following RVs on DM-114 board to specified position respectively.



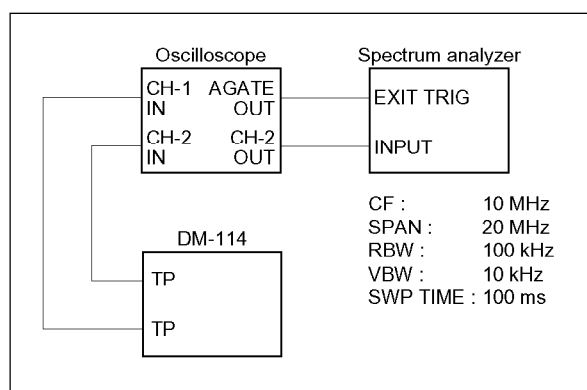
8-3-6. Demodulator Limiter Balance Adjustment

Measuring equipment :

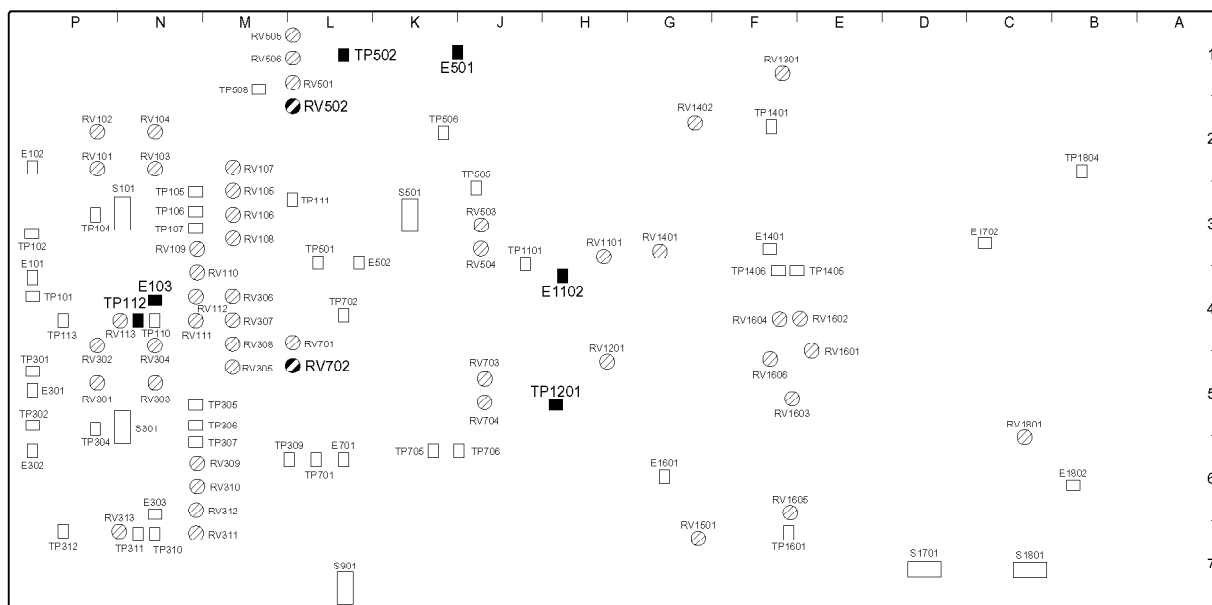
Spectrum analyzer and Oscilloscope (Show below for connection.)

Note

As for the Y adjustment, the provisional adjustment described below is allowed only when the spectrum analyzer is not available for an urgent maintenance. If the provisional adjustment is performed, be sure to readjust the Y signal using the spectrum analyzer at a later date.



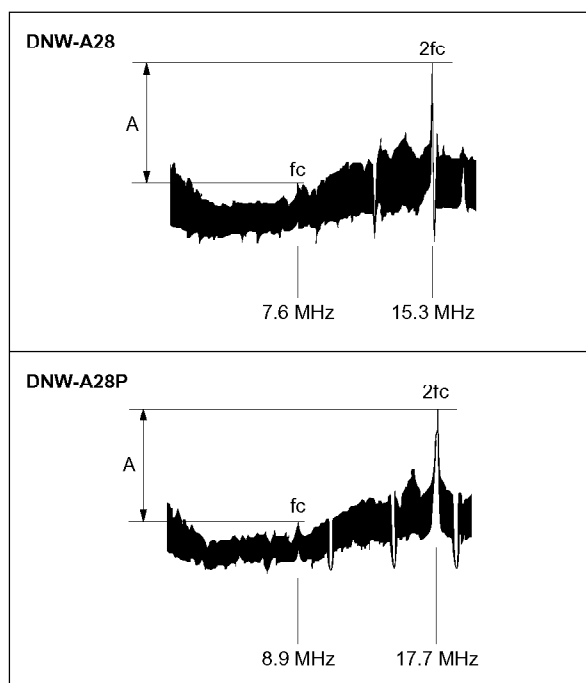
Connection and Setting of Spectrum Analyzer



DM-114 Board (B Side)

1. Y adjustment (using the spectrum analyzer)

- Connect and set the oscilloscope as follows :
CH-1 : TP112/DM-114 (*N-4), DC 1 V/DIV
GND : E103/DM-114 (*N-4)
CH-2 : TP502/DM-114 (*L-1), AC 1 V/DIV, 5 ms/DIV
GND : E501/DM-114 (*J-1)
Trigger : CH-1, negative (–) slope
- Play back the flat filed signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point : ●RV502/DM-114 (*L-2)
Specification : Maximize the level difference A.
(Minimize the f_c .)



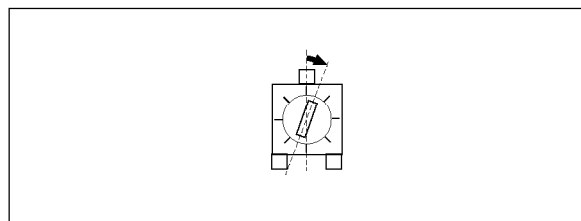
- Stop the playback of the alignment tape.

2. Provisional Y adjustment (without using the spectrum analyzer)

Note

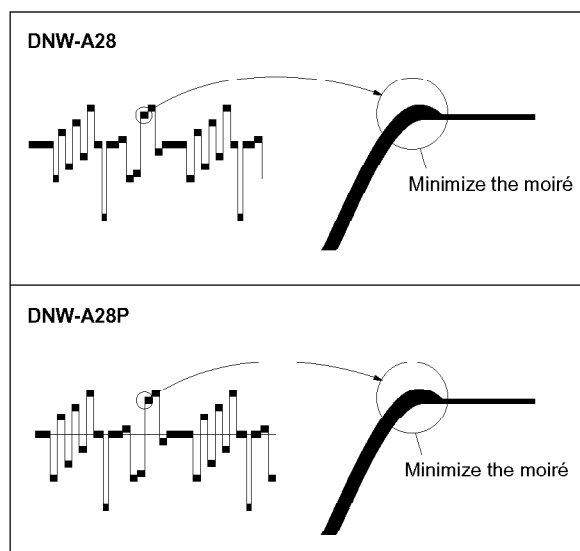
This section explains the provisional adjustment for Y signal without using a spectrum analyzer. If the above-mentioned Y adjustment is completed, this adjustment is not required.

Set RV502/DM-114 (*L-2) as shows below.



3. C adjustment

- Connect and set the oscilloscope as follows:
CH-2 : TP1201/DM-114 (*H-5), AC 200 mV/DIV
GND : E1102/DM-114 (*H-4)
TIME : 10 μ s/DIV
Trigger : CII-2
- Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point : ●RV702/DM-114 (*L-5)
Specification : Minimize the moiré of specified part.



- Stop the playback of the alignment tape.

8-3-7. PB Frequency Response Adjustment

Measuring equipment : Digital component waveform monitor

Preparation/Setting

1. Connect the digital component waveform monitor to the SDI OUT connector.
2. Select A32 : DM VR 1 of the maintenance mode.
3. Press the SET button.

1. METAL Y adjustment

1. Observe the Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (8 : 00 to 11 : 00) of the alignment tape CR5-1B or CR5-1B PS. Press the SET button and adjust so that the level at 4.1 MHz (or 5 MHz for PAL) portion is within specification. And confirm that levels at other frequencies are within specifications.

(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. So adjust/confirm the signal level at each channel.

Adjustment points :

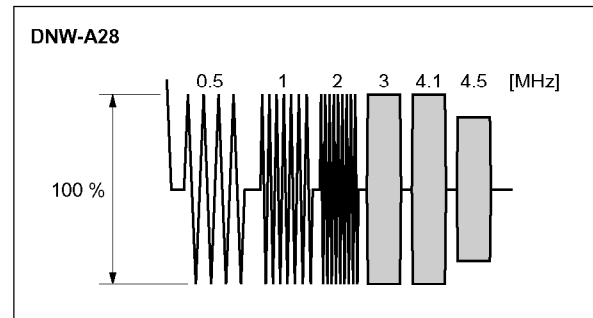
A channel : A32 : DM VR 1 : EQ1 METAL-Y-A

B channel : A32 : DM VR 1 : EQ1 METAL-Y-B

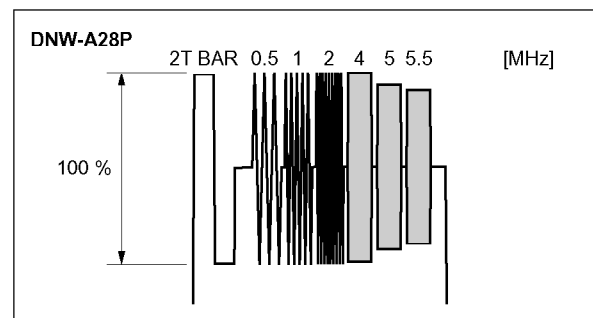
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
0.5 MHz	Reference : 100 % {0 dB}
4.1 MHz	Adjust : 94 (100 to 90) % { -0.5 ± 0.5 dB}
1 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
2 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
3 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
4.5 MHz	Check : 80 (106 to 63) % { -2.0 ± 2.5 dB}



Frequency	Specifications for DNW-A28P
2T BAR	Reference : 100 % {0 dB}
5 MHz	Adjust : 91 (96 to 87) % { -0.8 ± 0.4 dB}
0.5 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
1 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
2 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
4 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
5.5 MHz	Check : 84 (106 to 63) % { -1.5 ± 2.8 dB}



3. Connect the video monitor to VIDEO OUTPUT 1 connector.
4. Press the SET button and play back the multiburst signal portion (8 : 00 to 11 : 00) of the alignment tape CR5-1B or CR5-1B PS. Check that the playback picture on the video monitor has no flicker. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
5. Reconnect the video monitor to VIDEO OUTPUT 2 (SUPER) connector.

2. METAL C adjustment

1. Observe the R-Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (8 : 00 to 11 : 00) of the alignment tape CR5-1B or CR5-1B PS. Press the MENU button and adjust so that the level at 1 MHz (or 1.5 MHz for PAL) portion is within specification. And confirm that levels at other frequencies are within specifications.

(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. So adjust/confirm the signal level at each channel.

Adjustment points :

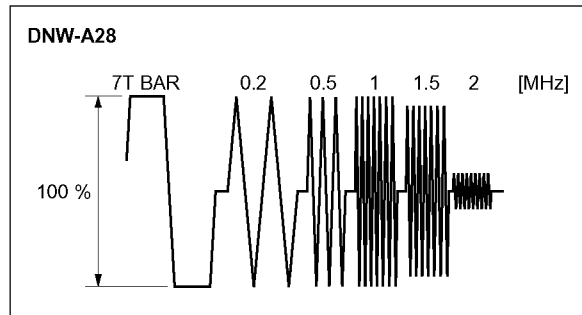
A channel : A32 : DM VR 1 : EQ1 METAL-C-A

B channel : A32 : DM VR 1 : EQ1 METAL-C-B

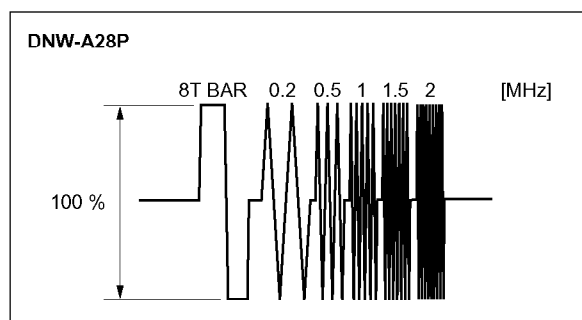
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
7T BAR	Reference : 100 % {0 dB}
1 MHz	Adjust : 94 (100 to 89) % { -0.5 ± 0.5 dB}
0.2 MHz	Check : 100 (106 to 71) % {0 ± 3.5 dB}
0.5 MHz	Check : 100 (106 to 71) % {0 ± 3.5 dB}
1.5 MHz	Check : 80 (106 to 71) % { -2.0 ± 1.5 dB}



Frequency	Specifications for DNW-A28P
8T BAR	Reference : 100 % {0 dB}
1.5 MHz	Adjust : 93 (102 to 85) % { -0.6 ± 0.8 dB}
0.2 MHz	Check : 100 (106 to 71) % {0 ± 3.5 dB}
0.5 MHz	Check : 100 (106 to 71) % {0 ± 3.5 dB}
1 MHz	Check : 100 (106 to 71) % {0 ± 3.5 dB}
2 MHz	Check : 80 (106 to 71) % { -2.0 ± 1.5 dB}



3. Observe the B-Y output signal on the component waveform monitor. Confirm the B-Y signal levels at every frequencies are within specifications shown above. If the B-Y signal is out of specifications, perform fine adjustment for R-Y until the specifications for both B-Y and R-Y signals are satisfied.
4. Press the SET button and eject the alignment tape.

3. OXIDE Y adjustment

1. Observe the Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape CR5-2A or CR5-2A PS. Press the SET button and adjust so that the level at 2 MHz (or 3 MHz for PAL) portion is within specification. And confirm that levels at other frequencies are within specifications.

(DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. So adjust/confirm the signal level at each channel.

Adjustment points :

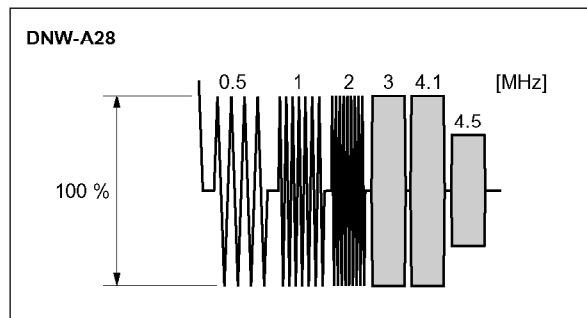
A channel : A32 : DM VR 1 : EQ1 OXIDE-Y-A

B channel : A32 : DM VR 1 : EQ1 OXIDE-Y-B

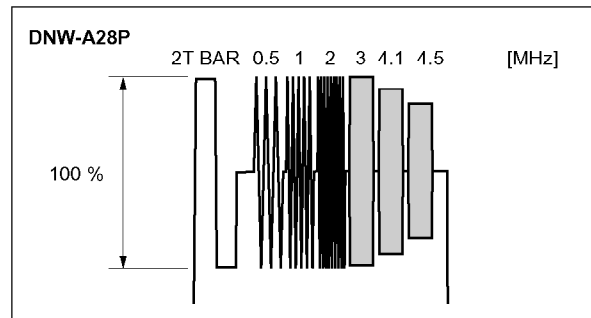
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
0.5 MHz	Reference : 100 % {0 dB}
2 MHz	Adjust : 100 (104 to 95) % {0 ± 0.3 dB}
1 MHz	Check : 100 (106 to 50) % {0 ± 0.8 dB}
3 MHz	Check : 89 (106 to 50) % {-1.0 ± 1.5 dB}
4.1 MHz	Check : 71 (106 to 50) % {-3.0 ± 3.8 dB}



Frequency	Specifications for DNW-A28P
2T BAR	Reference : 100 % {0 dB}
3 MHz	Adjust : 89 (100 to 79) % {-1.0 ± 1.0 dB}
0.5 MHz	Check : 100 (106 to 50) % {0 ± 0.5 dB}
1 MHz	Check : 100 (106 to 50) % {0 ± 0.5 dB}
2 MHz	Check : 100 (106 to 50) % {0 ± 0.5 dB}
4.1 MHz	Check : 71 (106 to 50) % {-3.0 ± 3.5 dB}



3. Press the SET button and play back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape CR5-2A or CR5-2A PS, and confirm that the level difference between the A and B channel signals is hardly noticeable at high frequency portion (4.5 MHz).

Note

If the level difference is noticeable at 4.5 MHz, adjustment using menu A34 : DM VR3 : SUB OXIDE-A or -B is required. Following steps ① to ⑦, adjust the channel with the lower level while playing back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape.

• Low level channel's adjustment procedures

- ① To exit from A32 : DM VR 1, press the MENU button once.
- ② Select A34 : DM VR 3 of the maintenance mode.
- ③ Change the data value of SUB OXIDE-Y-A (A channel side), and judge which signal is lower in level. (DNW-A28 : BC, DNW-A28P : C9)
- ④ If the B channel signal is lower, return the data value of SUB OXIDE-Y-A to the former data, then adjust the SUB OXIDE-Y-B so as to increase the value until the level of B channel signal is almost equal to the level of A channel signal. If the A channel signal is lower, adjust the SUB OXIDE-Y-A so as to increase the value until the level of A channel signal is almost equal to level of B channel signal.
- ⑤ To exit from A34 : DM VR 3, press the MENU button once.
- ⑥ Select A32 : DM VR 1.
- ⑦ To perform the tape operation, press the SET button once.

4. OXIDE C adjustment

1. Observe the R-Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape CR5-2A or CR5-2A PS, and adjust so that the level at 1 MHz portion is within specification. And confirm that levels at other frequencies are within specifications. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. So adjust/confirm the signal level at each channel.

Adjustment points :

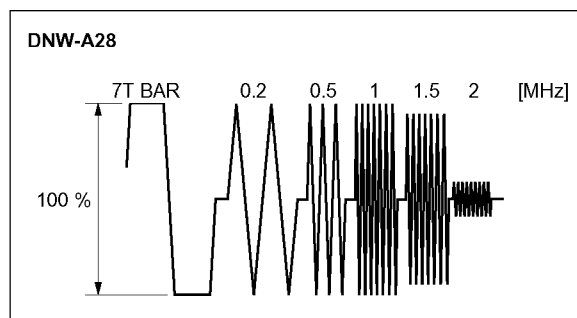
A channel : A32 : DM VR 1 : EQ1 OXIDE-C-A

B channel : A32 : DM VR 1 : EQ1 OXIDE-C-B

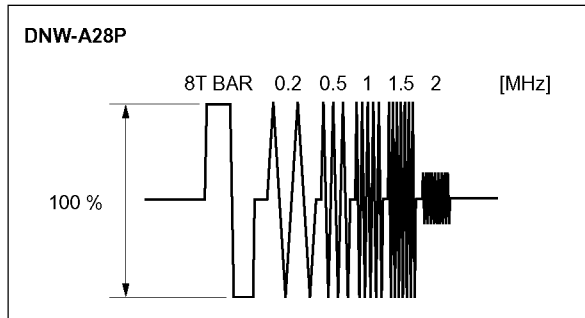
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
7T BAR	Reference : 100 % {0 dB}
1 MHz	Adjust : 94 (100 to 89) % { -0.5 ± 0.5 dB}
0.2 MHz	Check : 100 (106 to 71) % { 0 ± 0.5 dB}
0.5 MHz	Check : 95 (106 to 71) % { -0.4 ± 0.9 dB}
1.5 MHz	Check : 80 (106 to 71) % { -2.0 ± 2.8 dB}



Frequency	Specifications for DNW-A28P
8T BAR	Reference : 100 % {0 dB}
1 MHz	Adjust : 94 (102 to 86) % { -0.5 ± 0.8 dB}
0.2 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
0.5 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
1.5 MHz	Check : 84 (106 to 71) % { -1.5 ± 3.0 dB}



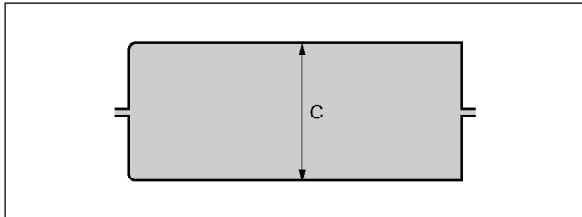
- Observe the B-Y output signal on the component waveform monitor. Confirm the B-Y signal levels at every frequencies are within specifications shown above. If the B-Y signal is out of specifications, perform fine adjustment for R-Y until the specifications for both B-Y and R-Y signals are satisfied.
- Eject the alignment tape.
- To exit from A32 : DM VR 1, press the MENU button once.

5. Saving data

- Select A3F : NV-RAM CONTROL of the maintenance mode, and execute "SAVE ALL ADJUST DATA".
- Check that the message "Save Complete" is displayed on the video monitor.
- To exit from A3F : NV-RAM CONTROL, press the MENU button once.
- To exit the maintenance mode, press the MENU button three times.

3. OXIDE C adjustment

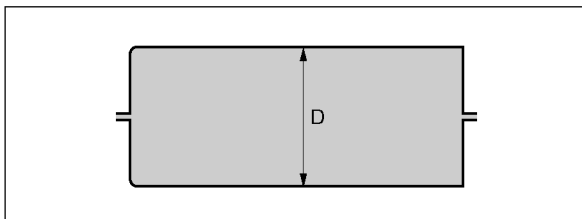
1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
Adjustment point : ●RV312/DM-114 (*N-6)
Specification : $C = 400 \pm 40$ mV p-p



2. Stop the playback of the alignment tape.

4. OXIDE Y adjustment

1. Change the connection of the oscilloscope as follows :
CH-1 : TP112/DM-114 (*N-4)
GND : E103/DM-114 (*N-4)
CH-2 : TP107/DM-114 (*N-3)
GND : E103/DM-114 (*N-4)
2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
Adjustment point : ●RV112/DM-114 (*N-4)
Specification : $D = 400 \pm 40$ mV p-p



3. Eject the alignment tape.

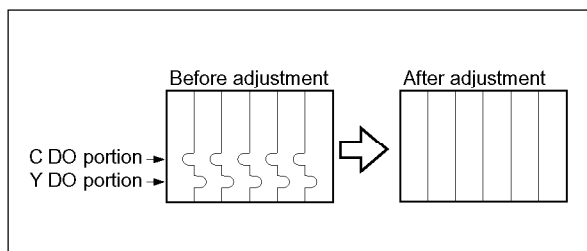
8-3-10. Impact Error Offset Adjustment

Measuring equipment : Video monitor

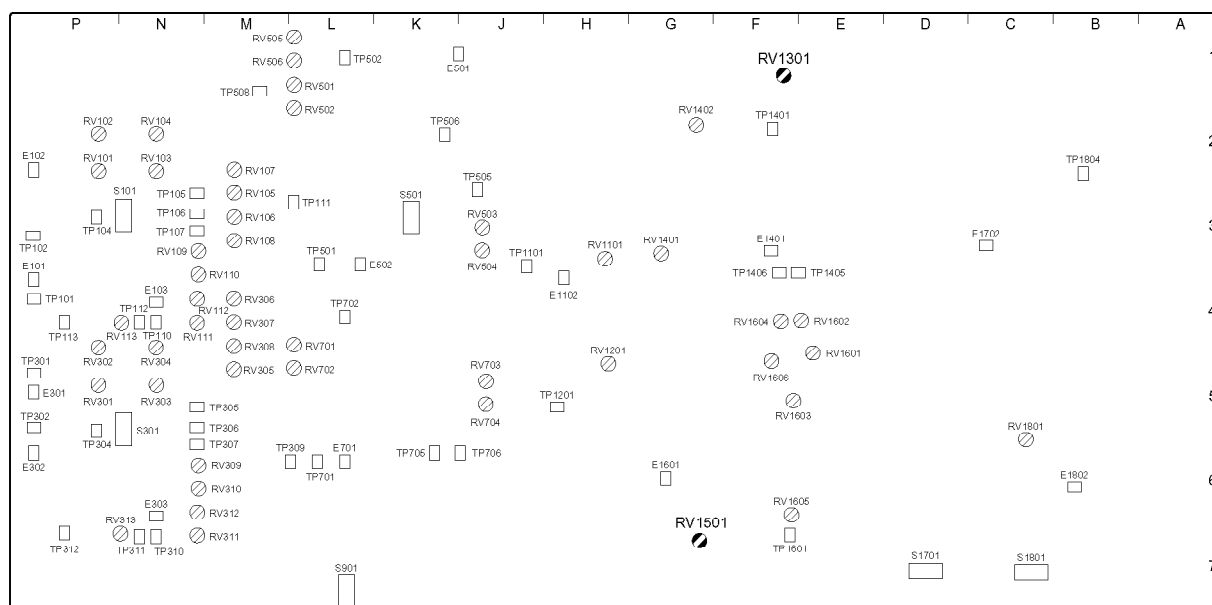
1. Play back the color-bar signal portion (26 : 00 to 28 : 00) of the alignment tape CR5-1B or CR5-1B PS.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
2. Adjust the following RVs until the drop-out portions (Y DO and C DO) of color-bar displayed on the video monitor disappear.

Adjustment points : Y DO : ~~RV~~1301/DM-114 (*F-1)
C DO : ~~RV~~1501/DM-114 (*G-7)

Specification : See the figure below.



3. Stop the playback of the alignment tape.



DM-114 Board (B Side)

Section 9

Electrical Alignment

9-1. General Information for Electrical Alignment

9-1-1. Notes on Electrical Alignment

- Do not execute adjustment items nor change data in the maintenance mode which are not described in Section 9.
If executed or changed carelessly, turn off the power of the DNW or execute “ALL DATA PREVIOUS” in each NV-RAM control menu so as not to save the data. (Never execute “SAVE ALL ADJUST DATA” in each NV-RAM control menu.)

Notes

- A006 : NV RAM CONTROL (in the servo system adjusted data save mode) have no function “ALL DATA REVIOUS.”
- For details on the maintenance mode, refer to Section 3 “Maintenance Mode.”
- Before beginning adjustment, it is recommended to make a photocopy of check sheets given in the Appendix A and write down setup conditions such as switches' setting in the check sheets.
If setup conditions are noted, the settings can be returned easily to its original condition after finishing adjustment.
- For the DNW-A28P, DM-114P board is used instead of the DM-114 board. For convenience in explaining, both DM-114 and DM-114P boards are represented as DM-114 simply.

Equipment and Tools Required

For the measurement equipment and tools used in this section, refer to “1-17-2. Equipment for Adjustment.”

Contents of Alignment Tapes

For the contents of alignment tapes used in this section, refer to “1-18. Alignment Tape.”

Operation of the Maintenance Mode

Entering the maintenance mode

Press S200 (B-1) on the SY-259B board. (For more details, refer to Section 3-1.)

Starting up the Maintenance Mode from Front Panel

The maintenance mode can be started by the operation below when the S201-2 (B-1) switch on the SY-259B board is set to ON (upper).

- (1) Press the MENU button once to start up the setup menu.

Note

If menu is not start up, set the “SUPER” of sub menu to “ALL/MENU” and push the MENU button once again. (Regarding the sub menu setting, refer to Section 2 of operation manual.)

- (2) Press the SET button while pressing the CTL/TC/U-BIT button.
- (3) The mode screen in the maintenance mode is displayed on the video monitor.

Shifting the next menu

- (1) Press the JOG dial to enter the JOG mode.
- (2) Turn the JOG dial to set the cursor * to the desired menu (or mode).
- (3) Press the SET button.

Exiting from the current menu (or mode)

Press the MENU button.

Note

Press the MENU button several times to exit from the maintenance mode.

Saving the data

- (1) Turn the JOG dial to set the cursor * to A006 : NV-RAM CONTROL or A1F : NV-RAM CONTROL.
- (2) Press the JOG dial or SET button.
- (3) Turn the JOG dial to set the cursor * to A006 : “SAVE SERVO ADJUST DATA” or A1F : “SAVE ALL ADJUST DATA.”
- (4) Press the SET button.

9-1-2. Outline

Adjustment items necessary at board replacement or maintenance are grouped under the following blocks in Section 6. Included among them is how to adjust using the maintenance menu, variable resistors and so on.

As for adjustments using the maintenance menu, items requiring measuring equipment and the way of manual adjustment are also explained.

Block	Board name	Reference	Service action
System control	SY-259B	Section 9-2	Setting required in replacing SY-259B board
Servo	SV-194A	Section 9-3	Electrical adjustment required in replacing SV-194A board
SDI	SDI-23	Section 9-4	Manual adjustment for SDI VCO
RF	EQ-72	Section 9-5	Electrical adjustment required in replacing EQ-72 board
Audio	AU-249/CP-344/PA-218	Section 9-6	Overall for audio system adjustment
Reference signal/ Video processing	TG-191/VPR-34	Section 9-7	Reference signal / Analog composite video output adjustment
Composite decoder	DEC-97	Section 9-8	Analog composite video input adjustment
Analog Betacam PB	DM-114	Section 9-9	Overall adjustment for analog Betacam play back system
Timecode	SV-194A	Section 9-10	

9-1-3. Setting and Adjustment after Board Replacement

Board name	Section	Setting and adjustment after replacement
SY-259B	9-2	Setup menu respecification Error logger clear Calendar/clock setting Serial No. setting (M31 : SERIAL NUMBER)
SV-194A	9-3 9-10	Maintenance mode A0 : SERVO ADJUST execution Time code system adjustment (Also applied during AT head replacement.)
SDI-23	9-4	Maintenance mode A23 : SDIVR execution Data saving A1F : NV-RAM CONTROL execution
EQ-72	9-5	Maintenance mode A17 : A11-A16 ALL ADJUST execution Data saving A1F : NV-RAM CONTROL execution Maintenance mode A30 : EQ VR execution Data saving A3F : NV-RAM CONTROL execution
AU-249	9-6	Audio system overall adjustment
PA-218	9-6	Audio system overall adjustment
TG-191	9-7	Maintenance mode A20 : VPR/TG VR execution Data saving A2F : NV-RAM CONTROL execution
VPR-34	9-7	Maintenance mode A20 : VPR/TG VR execution Data saving A2F : NV-RAM CONTROL execution
DEC-97	9-8	Maintenance mode A25 : DEC VR A26 : DEC VR (LOOP) A24 : INPUT OF DETECT execution Data saving A2F : NV-RAM CONTROL execution
DM 114	9 9	Maintenance mode A30 : EQ VR (EQ RF output level adjustment) A33 : DM VR2 (Cosine equalizer adjustment) A34 : DM VR3 A35 : DM VR4 execution Data saving A3F : NV-RAM CONTROL execution

9-2. System control

9-2-1. SY-259B board Replacement

Check/Setting Required Before Replacement

- Checking the setting state of the setup menus (Basic menu and extended menu for 525/60 and 625/50 line systems)
Make a photocopy of check sheets given in the Appendix A and write down setup conditions in the check sheets.
- Setting DIP switch
Set the DIP switch S202 (D-2) of a new SY-259B board according to the type of the unit. For details, refer to the Section 1-8.

Settings Required After Replacement

- Resetting the setup menus (Basic menu and extended menu for 525/60 and 625/50 line systems)
Reset the setup menu according to the filled-in check sheets.
- Clearing the error logs/Setting the calendar and clock
Be sure to refresh a NV-RAM on a replaced SY-259B board, because there is a fear that the NV-RAM stores an unnecessary error logs.
Calendar and clock are used to show the time and date when error occurs. Adjust the calendar/clock correctly because they may be wrong. For details, refer to Section 3-3.
- Serial Number Setting
Since a serial number data is stored up in a NV-RAM on the SY-259B board, be sure to reset the serial number when the SY-259B board or RV-RAM (IC112) has been replaced. For more details, refer to Section 3-4-3.

9-3. Servo System

9-3-1. Servo System Adjustment

After replacing the SV-194A board, be sure to perform adjustments for the following all items. If the NV-RAM (IC403/SV-194A) is replaced, perform steps 1 and 2.

1. Turn on the power while pressing the switch S101 (*B-1) on the SV-194A board to initialize the servo adjustment data, and release the switch S101 after three seconds.

Note

If the system error ERROR-97 (SV NV-RAM ERROR) occurs at this time, turn off the power and retry.

2. Make adjustments automatically for all items of the maintenance mode A0 : SERVO ADJUST and save their data. For details on operation, refer to Section 3-2-6.

A000 : A001-A003 ADJ.

(A001 : S REEL FG DUTY)

(A002 : CAPSTAN FG DUTY)

(A003 : CAPSTAN FRICTION)

A004 : CAPSTAN FREE SPEED

A005 : RF SWITCHING POS.

A006 : NV-RAM CONTROL

3. Perform the LTC erasure current adjustment. For details, refer to Section 9-10-1.

9-4. SDI

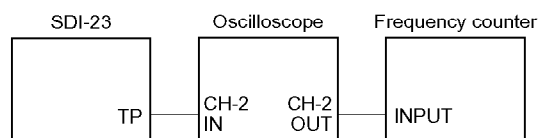
After replacing the SDI-23 board or replacing the EE-PROM (IC457), SDI DEC (IC102), SDI ENC (IC702) or their peripheral parts on the SDI-23 board, make adjustments automatically for items of the maintenance mode A23 : SDI VR. Allow ten minutes to begin the adjustment after the unit is powered on.

And it is possible to adjust the SDI VCO in the manual mode. To adjust in the manual mode, proceed as follows.

9-4-1. SDI VCO Adjustment in Manual Mode

Equipment : Frequency counter and Oscilloscope

1. Ten minutes are allowed to begin adjustment
2. Activate the maintenance menu.
3. Select the item which you want.
 A231 : SDI ENC VCO
 A232 : SDI DEC VCO
4. Select Manual.
5. Test Points :
 TP700/SDI-23 (F-1) for A231 : SDI ENC VCO
 TP200/SDI-23 (F-1) for A232 : SDI DEC VCO



6. Turn the JOG dial until the specification is satisfied.
 Specification : 27.00 ± 0.05 MHz
7. Select A1F : NV-RAM CONTROL.
8. Execute "SAVE ALL ADJUST DATA"
 - After data saving is completed, the message "Save Complete" is displayed.
9. Press the MENU button four times to exit from the maintenance menu.

9-5. RF

After replacing the EQ-72 board or replacing the NV-RAM (IC703/EQ-72), make adjustments proceeding as follows. Allow 20 minutes to begin the adjustment after the unit is powered on.

Adjustment Items

No.	Item	Adjustment point	Remarks
1	Preparation		
2	All RF system adjustment	A17 : A11-A16 ALL ADJUST	Automatic adjustment
	Data save	A1F : NV-RAM CONTROL	
3	EQ RF output level adjustment for BETACAM/BETACAM SP PB		
	METAL Y	A30 : EQ VR : RF GAIN METAL-Y-A A30 : EQ VR : RF GAIN METAL-Y-B	TP101/DM-114
	METAL C	A30 : EQ VR : RF GAIN METAL-C-A A30 : EQ VR : RF GAIN METAL-C-B	TP301/DM-114
	OXIDE C	A30 : EQ VR : RF GAIN OXIDE-C-A A30 : EQ VR : RF GAIN OXIDE-C-B	TP301/DM-114
	OXIDE Y	A30 : EQ VR : RF GAIN OXIDE-Y-A A30 : EQ VR : RF GAIN OXIDE-Y-B	TP101/DM-114
	Data save	A3F : NV-RAM CONTROL	

9-5-1. Preparation

Front Panel Setting

REC INHI → OFF

Setting of maintenance mode

• For DNW-A28

1. Set the unit to 625/50 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
2. Set the default value of A30 with maintenance mode and save the data. (Refer to Section 3-2-9.)
3. Set the unit to 525/60 system with setup menu ITEM-013.
4. Set the default value of A30 with maintenance mode and save the data.

• For DNW-A28P

1. Set the unit to 525/60 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
2. Set the default value of A30 with maintenance mode and save the data. (Refer to Section 3-2-9.)
3. Set the unit to 625/50 system with setup menu ITEM-013.
4. Set the default value of A30 with maintenance mode and save the data.

		DNW-A28		DNW-A28P	
		525/60	625/50	625/50	525/60
A30 : EQ VR	RF GAIN METAL-Y-A	50	90	90	50
	RF GAIN METAL-Y-B	50	90	90	50
	RF GAIN METAL-C-A	50	88	88	50
	RF GAIN METAL-C-B	50	88	88	50
	RF GAIN OXIDE-Y-A	60	90	90	60
	RF GAIN OXIDE-Y-B	60	90	90	60
	RF GAIN OXIDE-C-A	60	88	88	60
	RF GAIN OXIDE-C-B	60	88	88	60

9-5-2. Overall RF Adjustment

1. Turn off the power and set S201-1 (D-1) on the SY-260 board to OFF.
2. Turn on the power.
3. Insert the alignment tape SR5-1 or SR5-1P, then cue up to time code 00 : 01 : 00 : 00.
(DNW-A28 : SR5-1, DNW-A28P : SR5-1P)
4. Activate the maintenance mode. (Refer to Section 9-1-1.)
5. Select A17 : A11-A16 ALL ADJUST.
 - The message “Auto Adjust (Push SET)” is displayed on the video monitor.
6. Press the SET button on the front panel.
 - Automatic adjustment for playback system will be started.
 - After the adjustment is completed, the message “Set a blank tape and push SET button for REC CURRENT adjustment” is displayed on the video monitor.
7. Press the SET button.
 - The message “Insert Blank Tape” is displayed and the alignment tape is ejected.
8. Take out the alignment tape.
9. Insert a blank Betacam SX tape.
 - Automatic recording current adjustment will be started.
 - After the adjustment is completed, the message “Auto Adjust Complete” is displayed on the video monitor.
10. Press the MENU button once to exit from the menu A17 : A11-A16 ALL ADJUST.
11. Select A1F : NV-RAM CONTROL.
12. Execute “SAVE ALL ADJUST DATA”
 - After data saving is completed, the message “Save Complete” is displayed on the video monitor.
13. Press the MENU button four times to exit from the maintenance menu.
14. Eject the Betacam SX tape.
15. Turn off the power and reset S201-1 on the SY-260 board to its factory-set position (ON).

Following this adjustment, perform Section 9-5-3 “EQ RF Output Level Adjustment.”

1. METAL Y adjustment

Allow 20 minutes to begin adjustment after the unit is powered on.

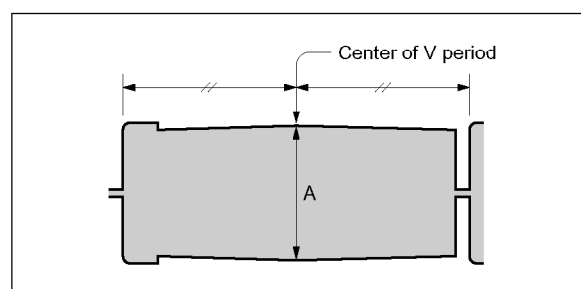
Measuring equipment : Oscilloscope
(20 MHz BW LIMIT : ON)

1. Select A30 : EQ VR of the maintenance mode.
2. Connect and set the oscilloscope as follows :
CH-1 : TP112/DM-114 (*N-4), DC 1 V/DIV
GND : E103/DM-114 (*N-4)
CH-2 : TP101/DM-114 (*P-4), AC 100 mV/DIV,
2 ms/DIV
GND : E101/DM-114 (*P-4)
Trigger : CH-1

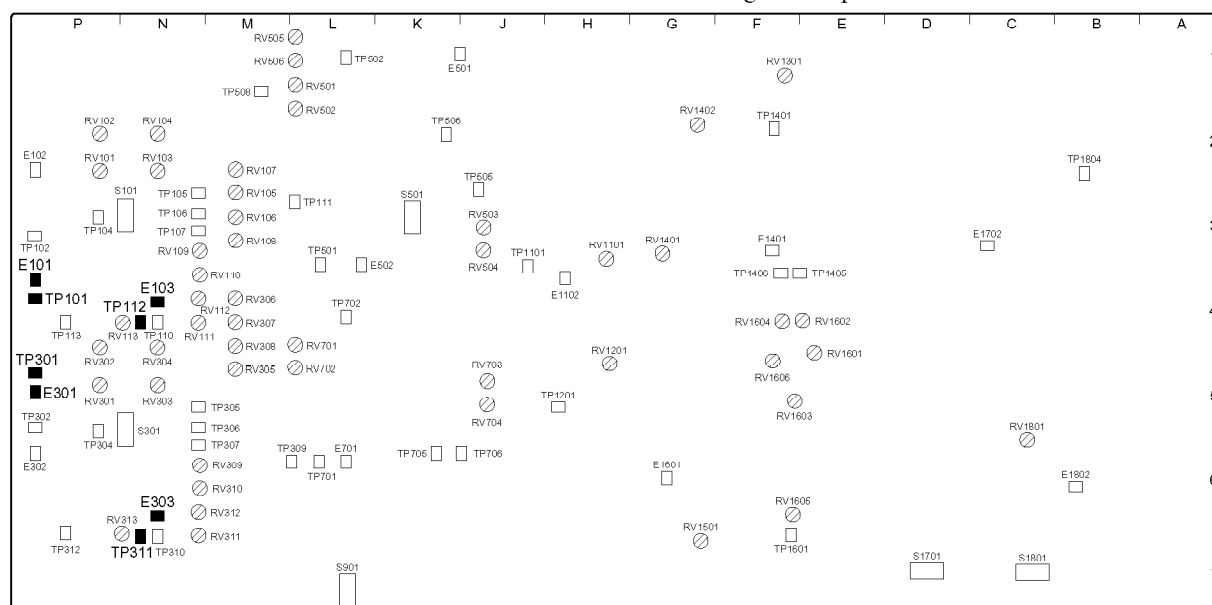
Notes

Adjust respectively for Y-A and Y-B channels.
Observing the Y-A channel, set the trigger of oscilloscope to the negative (−) slope.
Observing the Y-B channel, set the trigger of oscilloscope to the positive (+) slope.

Y-A channel: A30 : EQ VR : RF GAIN METAL-Y-A
Y-B channel: A30 : EQ VR : RF GAIN METAL-Y-B

$$A = 380 \pm 20 \text{ mV p-p}$$


2. Press the SET button, and then stop the playback of the alignment tape.



DM-114 Board (B Side)

2. METAL C adjustment

1. Change the connection of the oscilloscope as follows :

CH-1 : TP311/DM-114 (*N-7)
GND : E303/DM-114 (*N-6)
CH-2 : TP301/DM-114 (*P-5)
GND : E301/DM-114 (*P-5)

Trigger : CH-1

2. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS. Press the MENU button, and then perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Notes

Adjust respectively for C-A and C-B channels.

Observing the C-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the C-B channel, set the trigger of oscilloscope to the positive (+) slope.

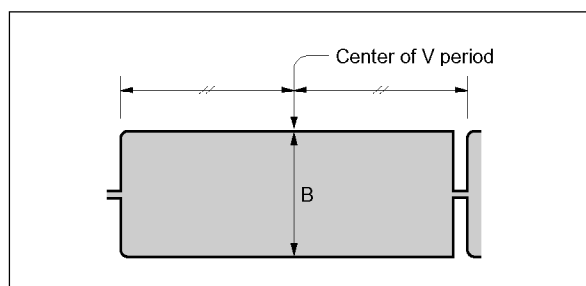
Adjustment points :

C-A channel : A30 : EQ VR : RF GAIN METAL-C-A

C-B channel : A30 : EQ VR : RF GAIN METAL-C-B

Specifications (C-A and C-B channels) :

$B = 380 \pm 20 \text{ mV p-p}$



3. Press the SET button, and then eject the alignment tape.

3. OXIDE C adjustment

1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS. Press the MENU button, and then perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Note

Adjust respectively for C-A and C-B channels.

Observing the C-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the C-B channel, set the trigger of oscilloscope to the positive (+) slope.

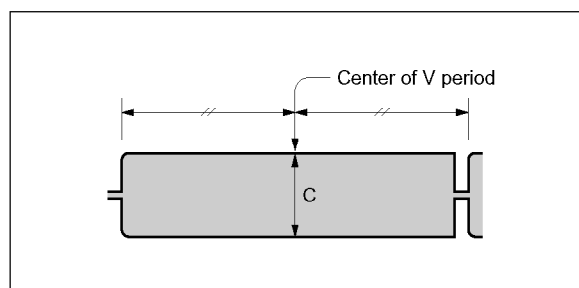
Adjustment points :

C-A channel : A30 : EQ VR : RF GAIN OXIDE-C-A

C-B channel : A30 : EQ VR : RF GAIN OXIDE-C-B

Specifications (C-A and C-B channels) :

$C = 250 \pm 20 \text{ mV p-p}$



2. Press the SET button, and then stop the playback of the alignment tape.

4. OXIDE Y adjustment

1. Change the connection of the oscilloscope as follows :
CH-1 : TP112/DM-114 (*N-4)
GND : E103/DM-114 (*N-4)
CH-2 : TP101/DM-114 (*P-4)
GND : E101/DM-114 (*P-4)
Trigger : CH-1
2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS. Press the MENU button, and then perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Notes

Adjust respectively for Y-A and Y-B channels.
Observing the Y-A channel, set the trigger of oscilloscope to the negative (−) slope.
Observing the Y-B channel, set the trigger of oscilloscope to the positive (+) slope.

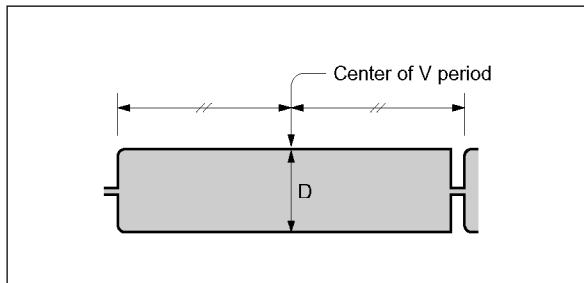
Adjustment points :

Y-A channel : A30 : EQ VR : RF GAIN OXIDE-Y-A

Y-B channel : A30 : EQ VR : RF GAIN OXIDE-Y-B

Specifications (Y-A and Y-B channels) :

$D = 250 \pm 20 \text{ mV p-p}$



3. Press the SET button, and then eject the alignment tape.
4. To exit from A30 : EQ VR, press the MENU button twice.

5. Saving data

1. Select A3F : NV-RAM CONTROL of the maintenance mode, then execute "SAVE ALL ADJUST DATA".
2. Check that the message "Save Complete" is displayed on the monitor screen.
3. To exit from A3F : NV-RAM CONTROL, press the MENU button once.
4. To exit the maintenance mode, press the MENU button three times.

9-6. Audio Adjustment

Adjustment Items

No.	Item	Adjustment point	Test point
1	Preparation		
2	Analog audio output level adjustment	CH1/3 ⚙RV301/AU-249 (C-2)	AUDIO OUTPUT CH1/3
		CH2/4 ⚙RV401/AU-249 (B-2)	AUDIO OUTPUT CH2/4
		MON. L ⚙RV501/AU-249 (E-2)	MONITOR OUTPUT L
		MON. R ⚙RV601/AU-249 (C-2)	MONITOR OUTPUT R
3	Analog audio input level adjustment	CH1 ⚙RV141/CP-344 (C-3)	AUDIO OUTPUT CH1/3
		CH2 ⚙RV241/CP-344 (D-3)	AUDIO OUTPUT CH2/4
4	AGC level adjustment	⚙RV1/AU-249 (A-4)	AUDIO OUTPUT CH1/3
5	LAU PB frequency response adjustment (OXIDE) (Audio head dumping adjustment)	CH1 ⚙RV802/PA-218 (D-1) ⚙RV800/PA-218 (D-1) [S800/PA-218 (D-1)]	AUDIO OUTPUT CH1/3
		CH2 ⚙RV803/PA-218 (C-1) ⚙RV801/PA-218 (C-1) [S801/PA-218 (C-1)]	AUDIO OUTPUT CH2/4
6	LAU PB frequency response adjustment (METAL) (DNW-A28P only)	CH1 ⚙RV804/PA-218 (E-1)	AUDIO OUTPUT CH1/3
		CH2 ⚙RV805/PA-218 (C-1)	AUDIO OUTPUT CH2/4
7	LAU Dolby level adjustment	CH1 ⚙RV101/AU-249 (H-5)	TP102/AU-249 (H-4)
		CH2 ⚙RV201/AU-249 (F-5)	TP202/AU-249 (F-4)
8	LAU PB level adjustment	CH1 ⚙RV102/AU-249 (H-4)	AUDIO OUTPUT CH1/3
		CH2 ⚙RV202/AU-249 (F-4)	AUDIO OUTPUT CH2/4

9-6-1. Preparation

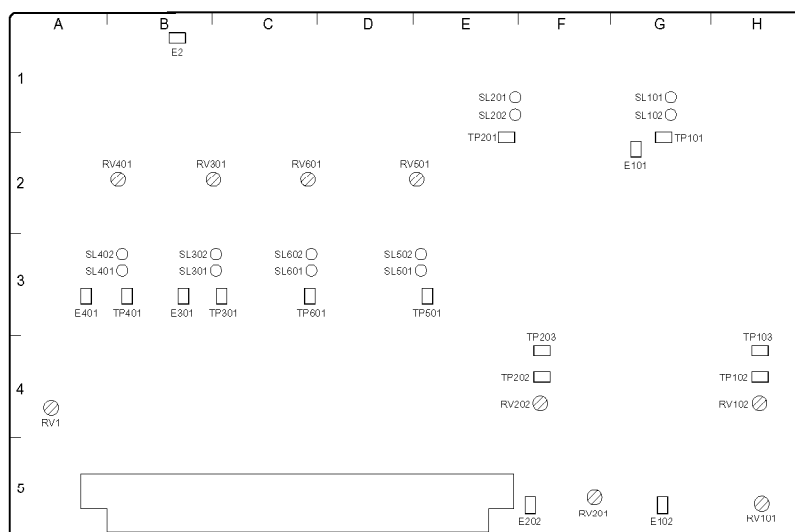
Make a photocopy of check sheets given in the Appendix A and write down setup conditions in the check sheets.

Setting the slit-lands on AU-249 board

Set the slit-lands on AU-249 board to their factory-set positions before beginning adjustment.

After adjustments are normally finished, return the slit-lands to their customer-set states and make a fine adjustment for each item. Descriptions about slit-lands are given in the Section 1-8.

Channel	Ref. No. (address)	Item	Factory setting	Customer setting
INPUT CH1	SL101 (G 1) SL102 (G-1)	Analog audio CH1 input headroom	Open (20 dB) Open	
INPUT CH2	SL201 (E-1) SL202 (E-1)	Analog audio CH2 input headroom	Open (20 dB) Open	
OUTPUT CH1/3	SL301 (C-3) SL302 (C-3)	Analog audio CH1/3 output headroom	Open (20 dB) Open	
OUTPUT CH2/4	SL401 (B-3) SL402 (B-3)	Analog audio CH2/4 output headroom	Open (20 dB) Open	
MON. L	SL501 (E-3) SL502 (E-3)	Monitor L output headroom	Open (20 dB) Open	
MON. R	SL601 (C-3) SL602 (C-3)	Monitor R output headroom	Open (20 dB) Open	



AU-249 Board (A Side)

S201/SY-259B Setting

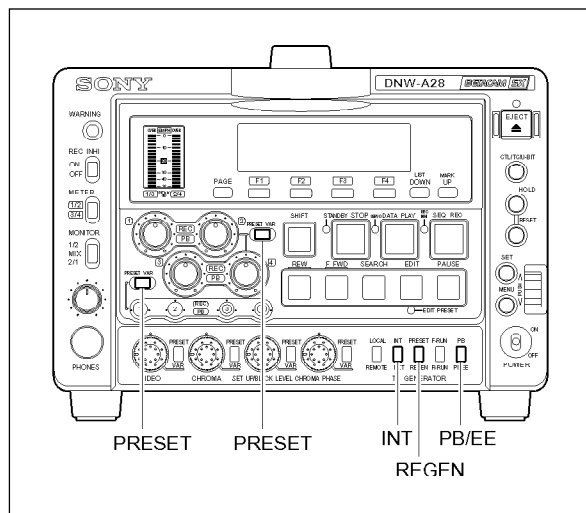
S201-1, 2 (B-1) → ON

Connector Panel Setting

AUDIO INPUT CH1 → +4 dBu

AUDIO INPUT CII2 $\rightarrow +4$ dBu

Control Panel Setting



Setup menu setting

(Regarding the setup menu setting, refer to Section 6 of operation manual.)

- For the DNW-A28
ITEM-808 : INTERNAL AUDIO SIGNAL GENERATOR
→ 1 kHz (sine)
- For the DNW-A28P
ITEM-808 : INTERNAL AUDIO SIGNAL GENERATOR
→ 1 kHz (sine)
ITEM-F01 : AUDIO NR IN SP MODE
→ switch select

Note

After adjustments are completed, return the ITEM-F01 to "ON."

Time Data Display Setting

Press the CTL/TC/U-BIT button to display TC on the display.

Sub Menu Setting

(Regarding the sub menu setting, refer to Section 2 of operation manual.)

AGC	→ON
LIMITER	→OFF
AUDIO INPUT IN-1	→ANALOG1
AUDIO INPUT IN-2	→ANALOG2
MIX/SWAP CH1	→IN-1
MIX/SWAP CH2	→IN-2
EMPH	→OFF
DOLBY	→OFF
LINE OUT	→CH1/2
MONITOR LEVEL	→FIX
MONITOR CH-L	→CH-1
MONITOR CH-R	→CH-2



Maintenance menu setting

M37 : INT AUDIO SG LEVEL →20

9-6-2. Audio Output Level Adjustment

Equipment : Audio analyzer

Preparation/Setting

1. Set AU SG (in the audio setting page of the sub menu) to ON to output a 1 kHz -20 dBFS audio signal. (Regarding the sub menu setting, refer to Section 2 of operation manual.)

1. CH1/3 adjustment

1. Connect the input of audio analyzer to the AUDIO OUTPUT CH1/3 connector.
 Adjustment Point : $\text{RV301/AU-249 (C-2)}$
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)

2. CH2/4 adjustment

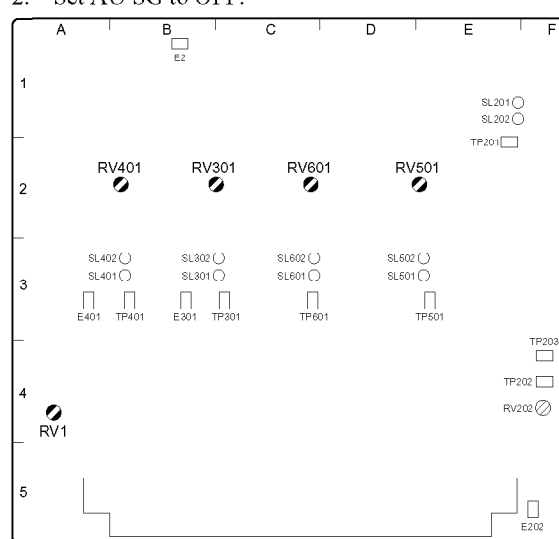
1. Connect the input of audio analyzer to the AUDIO OUTPUT CH2/4 connector.
 Adjustment Point : $\text{RV401/AU-249 (B-2)}$
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)

3. MON.L adjustment

1. Connect the input of audio analyzer to the MONITOR OUTPUT L connector.
 Adjustment Point : $\text{RV501/AU-249 (E-2)}$
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)

4. MON.R adjustment

1. Connect the input of audio analyzer to the MONITOR OUTPUT R connector.
 Adjustment Point : $\text{RV601/AU-249 (C-2)}$
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)
2. Set AU SG to OFF.



AU-249 Board (A Side)

DNW-A28
 DNW-A28P

9-6-3. Analog audio input Level Adjustment

Equipment : Audio analyzer

1. CH1 adjustment

1. Connect the input of audio analyzer to the AUDIO OUTPUT CH1/3 connector.
2. Feed a 1 kHz, $+4$ dBu signal from the audio signal generator to the AUDIO INPUT CH1 connector.
 Adjustment Point : $\text{RV141/CP-344 (C-3)}$
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)

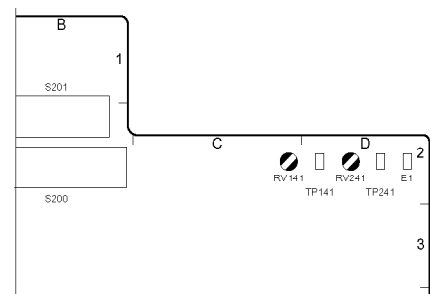
2. CH2 adjustment

1. Connect the input of audio analyzer to the AUDIO OUTPUT CH2/4 connector.
2. Feed a 1 kHz, $+4$ dBu signal from the audio signal generator to the AUDIO INPUT CH1 connector.
 Adjustment Point : $\text{RV241/CP-344 (D-3)}$
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)

9-6-4. AGC Level Adjustment

Equipment : Audio analyzer

1. Sub menu setting
 (Regarding the sub menu setting, refer to Section 2 of operation manual.)
 - Audio setting page
 AGC \rightarrow ON
2. Connect the input of audio analyzer to the AUDIO OUTPUT CH1/3 connector.
3. Feed a 1 kHz, $+4$ dBu signal from the audio signal generator to the AUDIO INPUT CH1 connector.
 Adjustment Point : RV1/AU-249 (A-4)
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)



CP-344 Board (A Side)

9-6-5. LAU PB Frequency Response Adjustment (OXIDE)

Measuring equipment : Audio analyzer

1. CH1 adjustment

1. Connect the input of audio analyzer to the AUDIO OUTPUT CH1/3 connector.
2. Play back the following specified portions (−20 VU) of the alignment tape CR8-1A or CR8-1A PS, and perform the adjustments or check. (DNW-A28 : CR8-1A, DNW-A28P : CR8-1A PS)

Note

If the specification for RV800 adjustment is not met, switch over S800/PA-218 (D-1) and adjust again.

2. CH2 adjustment

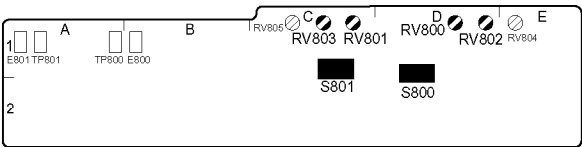
1. Connect the input of audio analyzer to the AUDIO OUTPUT CH2/4 connector.
2. Play back the following specified portions (−20 VU) of the alignment tape CR8-1A or CR8-1A PS, and perform the adjustments or check. (DNW-A28 : CR8-1A, DNW-A28P : CR8-1A PS)

Note

If the specification for RV801 adjustment is not met, switch S801/PA-218 (C-1) and adjust again.

Playback portions	Specifications[dB]		Adjustment points
	DNW-A28	DNW-A28P	
5 : 00 to 5 : 55 (1 kHz, −20 VU)	Regard a measured value as reference (0 dB).	Regard a measured value as reference (0 dB).	—
6 : 00 to 6 : 25 (40 Hz, −20 VU)	C.V. $\begin{smallmatrix} +0.7 \\ -1.7 \end{smallmatrix}$	C.V. $\begin{smallmatrix} +0.7 \\ -1.7 \end{smallmatrix}$	(Check only)
6 : 30 to 6 : 55 (7 kHz, −20 VU)	C.V. ± 0.3	C.V. ± 0.4	CH-1 : RV802/PA-218 (D-1) CH-2 : RV803/PA-218 (C-1)
7 : 00 to 7 : 25 (10 kHz, −20 VU)	C.V. ± 0.3	C.V. ± 0.4	(Check only)
7 : 30 to 7 : 55 (15 kHz, −20 VU)	C.V. $\begin{smallmatrix} +0.3 \\ -1.0 \end{smallmatrix}$	C.V. $\begin{smallmatrix} -1.0 \\ -1.7 \end{smallmatrix}$	CH-1 : RV800/PA-218 (D-1) CH-2 : RV801/PA-218 (C-1)

The correction values (C.V.) are given on the label of the alignment tape.



PA-218 Board (A Side)

9-6-6. LAU PB Frequency Response Adjustment (METAL)

Measuring equipment : Audio analyzer

1. CH1 adjustment

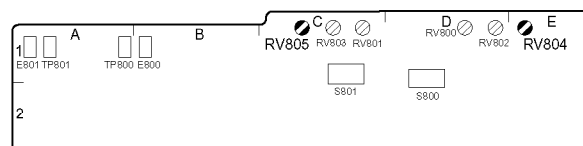
1. Connect the input of audio analyzer to the AUDIO OUTPUT CH1/3 connector.
2. Play back the following specified portions (−20 VU) of alignment tape CR8-1A PS, and perform the adjustment and checks.

2. CH2 adjustment

1. Connect the input of audio analyzer to the AUDIO OUTPUT CH2/4 connector.
2. Play back the following specified portions (−20 VU) of alignment tape CR8-1A PS, and perform the adjustment or check.

Playback portions	Specifications[dB]	Adjustment point
5 : 00 to 5 : 55 (1 kHz, −20 VU)	Regard a measured value as reference (0 dB). −	—
6 : 00 to 6 : 25 (40 Hz, −20 VU)	C.V. ± 0.7	(Check only)
6 : 30 to 6 : 55 (7 kHz, −20 VU)	C.V. ± 0.3	(Check only)
7 : 00 to 7 : 25 (10 kHz, −20 VU)	C.V. ± 0.4	(Check only)
7 : 30 to 7 : 55 (15 kHz, −20 VU)	C.V. ± 0.5	CH-1 : ●RV804/PA-218 (E-1) CH-2 : ●RV805/PA-218 (C-1)

The correction values (C.V.) are given on the label of the alignment tape.



PA-218 Board (A Side)

9-6-7. LAU Dolby Level Adjustment

Measuring equipment : Audio level meter

1. CH1 adjustment

1. Connect the audio level meter to TP102/AU-249 (H-4).
 GND : E102/AU-249 (G-5)
2. Play back the 1 kHz, 0 VU portion (0 : 00 to 2 : 55) of alignment tape CR8-1A or CR8-1B PS, and perform the level adjustment. (DNW-A28 : CR8-1A, DNW-A28P : CR8-1B PS)
 Adjustment point : ●RV101/AU-249 (H-5)
 Specification : -10.0 ± 0.1 dBu

2. CH2 adjustment

1. Connect the audio level meter to TP202/AU-249 (F-4).
 GND : E202/AU-249 (F-5)
2. Play back the 1 kHz, 0 VU portion (0 : 00 to 2 : 55) of alignment tape CR8-1A or CR8-1B PS, and perform the level adjustment. (DNW-A28 : CR8-1A, DNW-A28P : CR8-1B PS)
 Adjustment point : ●RV201/AU-249 (F-5)
 Specification : -10.0 ± 0.1 dBu

9-6-8. LAU PB Level Adjustment

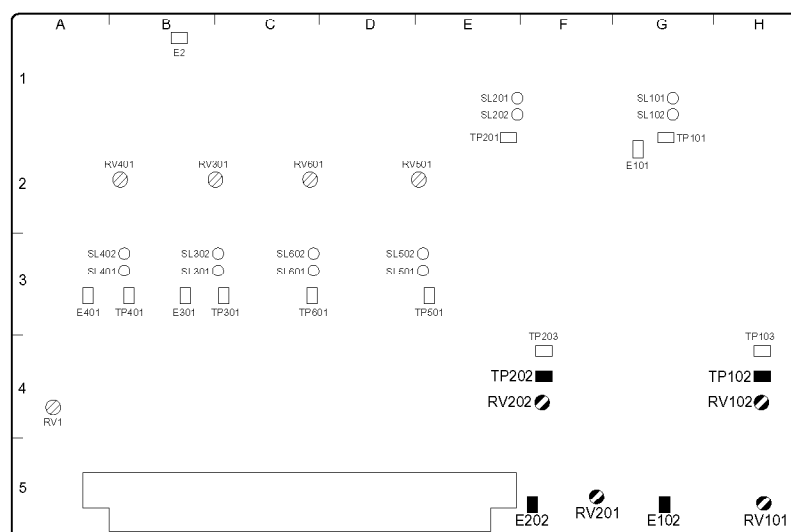
Measuring equipment : Audio analyzer

1. CH1 adjustment

1. Connect the input of audio analyzer to the AUDIO OUTPUT CH1/3 connector.
2. Play back the 1 kHz, 0 VU portion (0 : 00 to 2 : 55) of alignment tape CR8-1A or CR8-1B PS, and perform the level adjustment. (DNW-A28 : CR8-1A, DNW-A28P : CR8-1B PS)
 Adjustment point : ●RV102/AU-249 (H-4)
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)

2. CH2 adjustment

1. Connect the input of audio analyzer to the AUDIO OUTPUT CH2/4 connector.
2. Play back the 1 kHz, 0 VU portion (0 : 00 to 2 : 55) of alignment tape CR8-1A or CR8-1B PS, and perform the level adjustment. (DNW-A28 : CR8-1A, DNW-A28P : CR8-1B PS)
 Adjustment point : ●RV202/AU-249 (F-4)
 Specification : $+4.0 \pm 0.1$ dBu (600 Ω load)



AU-249 Board (A Side)

9-7. Reference Signal / Video Processing

The NV-RAM (IC406) on the TG-191/191P board is storing adjustment data for the TG-191/191P and VPR-34 boards. After replacing this NV-RAM or the TG-191/191P board, be sure to perform adjustments for the following all items. After replacing the VPR-34 board, perform adjustment items 1, 2, 5 and 6.

Note

Adjustments for video processing circuit are required for both 525/60 and 625/50 systems.
Regarding system selection, refer to Section 1-19-3.

Adjustment Items

No.	Item	Adjustment point	Test point
1	Preparation		
2	Composite video output level adjustment (525/60 system)		
	CH1/CH2	A20 : VPR/TG VR : VIDEO LEVEL	VIDEO OUTPUT
	Data save	A2F : NV-RAM CONTROL	
3	Internal 4fsc frequency adjustment (525/60 system)		
		A20 : VPR/TG VR : INT 4Fsc FREQ	TP102/TG-191(C-2)
	Data save	A2F : NV-RAM CONTROL	
4	Reference color frame pulse confirmation (for DNW-A28 only)		
		A20 : VPR/TG VR : REF 1st FLD DET	TP103/TG-191(D-2)
	Data save	A2F : NV-RAM CONTROL	
5	Switching to 625/50 system		
6	Composite video output level adjustment (625/50 system)		
	CH1/CH2	A20 : VPR/TG VR : VIDEO LEVEL	VIDEO OUTPUT
	Data save	A2F : NV-RAM CONTROL	
7	Internal 4fsc frequency adjustment (625/50 system)		
		A20 : VPR/TG VR : INT 4Fsc FREQ	TP102/TG-191(C-2)
	Data save	A2F : NV-RAM CONTROL	
8	Reference color frame pulse confirmation (for DNW-A28P only)		
		A20 : VPR/TG VR : REF 1st FLD DET	TP103/TG-191(D-2)
	Data save	A2F : NV-RAM CONTROL	

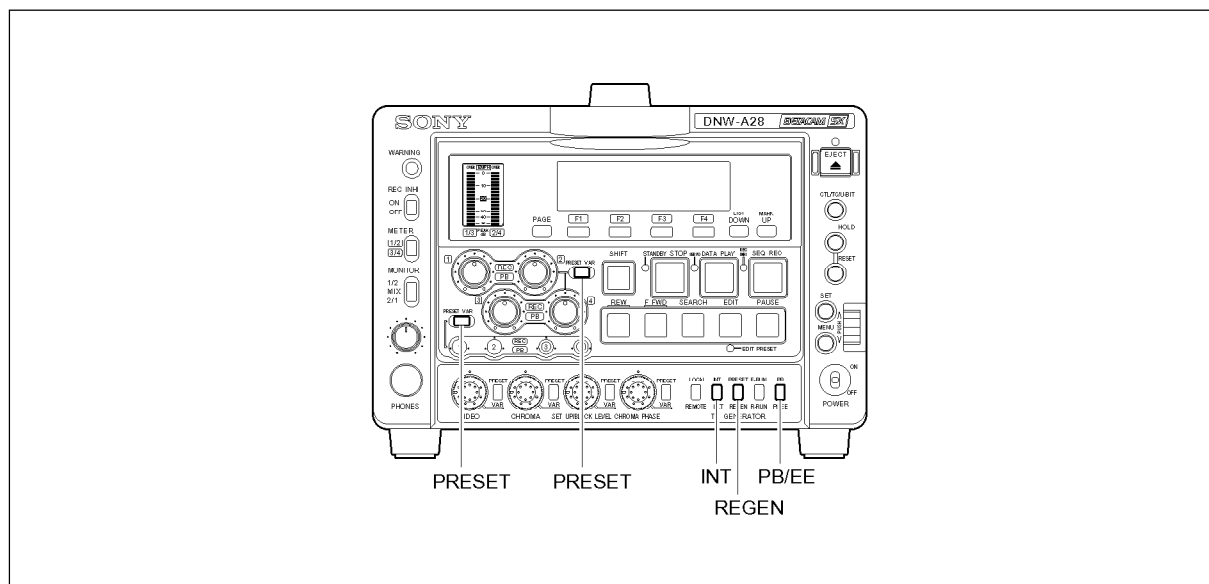
9-7-1. Preparation

Make a photocopy of check sheets given in the Appendix A and write down setup conditions in the check sheets.

1. Setting of S201/SY-259B board

S201-1, 2 (B-1) → ON

2. Front Panel setting



3. Video System Setting

(Regarding video system setting, refer to Section 1-19-2.)

Confirm that the unit is set to 525/60 system with the setup menu ITEM-013.

4. Sub menu Setting

(Regarding the sub menu setting, refer to Section 2 of operation manual.)

- General setting page
 - SUPER → ON
- Video setting page
 - PROCESS CONTROL → PANEL
 - Y/C DLY → 800 PRESET
 - SYNC PH → 80
 - SC PH → 80

5. Setup menu setting

(Regarding the setup menu setting, refer to section 1-19, or section 6 of operation manual.)

ITEM-713 : VIDEO SETUP REFERENCE LEVEL

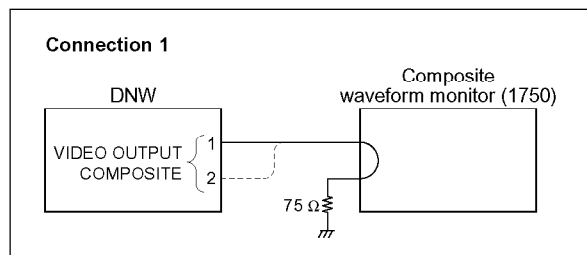
- | | | |
|----------|----------------------|----------|
| SUB-ITEM | 0 : MASTER LEVEL | → 7.5 % |
| | 1 : INPUT LEVEL | → MASTER |
| | 2 : INPUT VBLK CNT | → THROU |
| | 3 : BETACAM PB LEVEL | → MASTER |
| | 4 : OUTPUT LEVEL | → MASTER |

9-7-2. Composite Video Output Level Adjustment (525/60 system)

Note

Allow 30 minutes to begin adjustment after the unit is powered on.

Measuring equipment : Composite waveform monitor



1. Connect the composite waveform monitor as shown in Connection 1.
2. Activate the maintenance mode.
(Refer to Section 9-1-1.)
3. Select C2 : AUDIO/VIDEO CHECK.
4. Select C21 : VIDEO TEST SG.
5. Video signal selection
Press and turn the JOG dial slowly until a test signal name "75 % Color Bars" is displayed.
6. Press the MENU button once to exit from C21 : VIDEO TEST SG.
7. Press the MENU button again to exit from C2 : AUDIO/VIDEO CHECK.
8. Select A2 : AUDIO/VIDEO ADJUST.
9. Select A20 : VPR/TG VR.
10. Adjustment and check

Adjust the level at white signal portion so that the specification is satisfied.

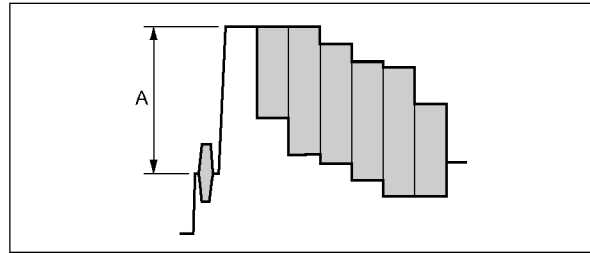
Adjustment point :

A20 : VPR/TG VR : VIDEO LEVEL

Specification : $A = 100 \pm 1$ IRE ($A = 714 \pm 7$ mV)

Notes

- It is impossible to adjust the outputs of VIDEO OUTPUT 1 and 2 (SUPER) connectors separately.
- Check operation only is enabled for the output of VIDEO OUTPUT 2 (SUPER) connector.
When observing the VIDEO OUTPUT 2 (SUPER) connector output, set "SUPER" in sub menu to OFF.
(Refer to the operation manual, Section 2-9.)

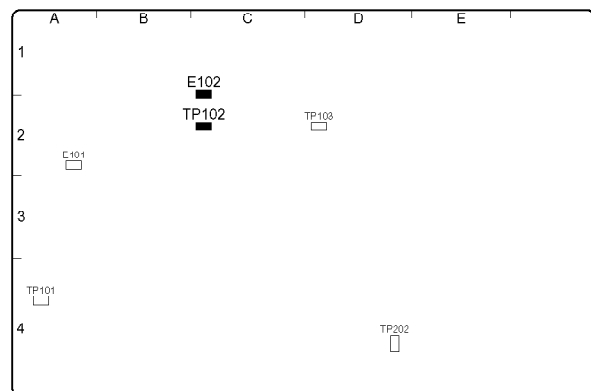


11. Press the MENU button to exit from A20 : VPR/TG VR.
12. Saving data
Select A2F : NV-RAM CONTROL of the maintenance mode, then execute "SAVE ALL ADJUST DATA".
13. Check that the message "Save Complete" is displayed on the monitor.
14. Press the MENU button to exit from A2F : NV-RAM CONTROL.
15. Press the MENU button three times to exit from the maintenance mode.

9-7-3. Internal 4 fsc Frequency Adjustment (525/60 system)

Measuring equipment : Frequency counter

1. Supply no signal to REF. VIDEO connector.
2. Connect the frequency counter to TP102/TG-191(C-2).
GND : E102/TG-191(C-1)
3. Start up the maintenance mode.
(Refer to Section 9-1-1.)
4. Select "A20 : VPR/TG VR."
5. Adjust frequency as follows :
Adjustment point : A20 : VPR/TG VR : INT 4 FSC
FREQ
Specification : 14,318,181 \pm 50 Hz
6. Saving data
Select A2F : NV-RAM CONTROL, then execute
"SAVE ALL ADJUST DATA."
7. Check that the message "Save Complete" is displayed
on the monitor.
8. Press the MENU button to exit from A2F : NV-RAM
CONTROL.
9. Press the MENU button three times to exit from the
maintenance mode.

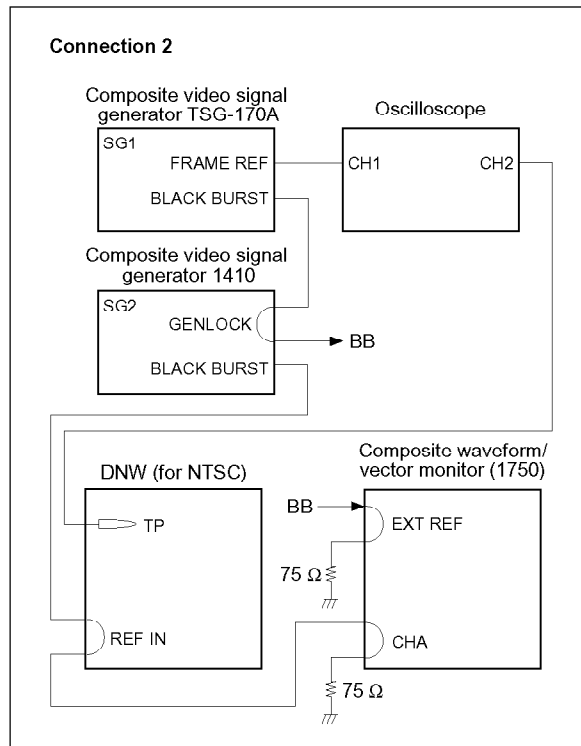


TG-191 Board (A Side)

9-7-4. Reference Color Frame Pulse Confirmation (for DNW-A28 only)

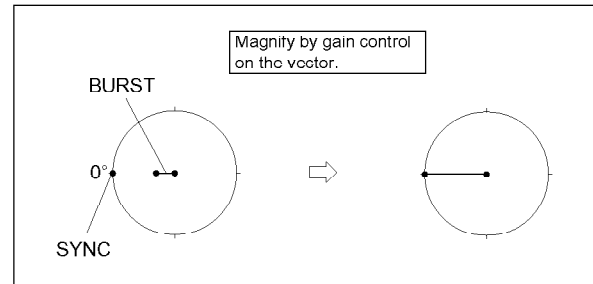
This adjustment is unnecessary for DNW-A28P.

Measuring equipment : Component waveform/vector monitor and Oscilloscope



1. Connect the video signal generator, component waveform/vector monitor (called "vector" after this), and oscilloscope as shown in Connection 2.

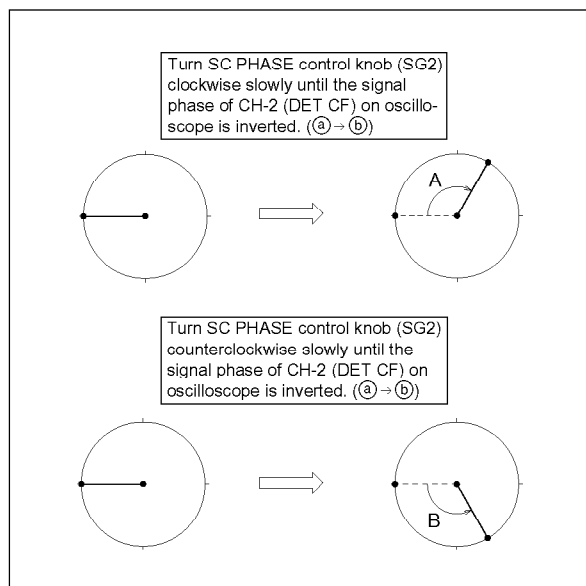
2. Set the vector as follows.
SCH mode, INPUT : CH-A, EXT REF
3. Align the SYNC phase with 0 degree using the vector's PHASE control so that the beam spot (SYNC) moves in the shortest route. (See the figure below.)



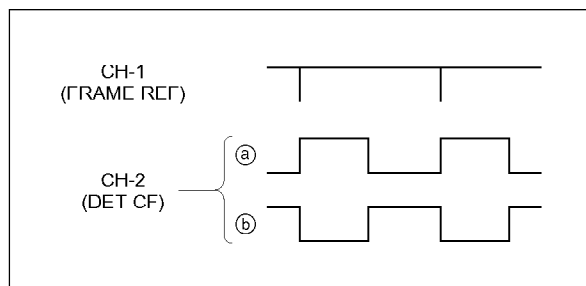
4. Align the BURST signal with its reference position on the vector using the signal generator SG2's SC PHASE control.
5. Align the beam spot (s) on the BURST signal with the circle scale on the vector using the gain control of the vector.
6. Connect and set the oscilloscope as follows :
Display : ALT mode
CH-1 : DC 2 V/DIV
(Connected to SG1's FRAME REF output)
CH-2 : TP103/TG-191 (D-2), DC 2 V/DIV
GND : E102/TG-191 (C-1)
TIME : 10 ms/DIV
Trigger : CH-1
7. Turn the signal generator SG2's SC PHASE control counterclockwise \odot slowly until the waveform of the oscilloscope's CH-2 (DET CF) changes from (a) to (b).
8. Measure the BURST phase (angle A) on the vector just when the waveform of the oscilloscope changes.
9. Turn the SG2's SC PHASE control clockwise \odot to return the BURST signal on the vector to its normal position.
10. Turn the signal generator SG2's SC PHASE control clockwise \odot slowly until the waveform of the oscilloscope's CH-2 (DET CF) changes from (a) to (b).
11. Measure the BURST phase (angle B) on the vector just when the waveform of the oscilloscope changes.
12. Turn the SG2's SC PHASE control counterclockwise \odot to return the BURST signal on the vector to its normal position.

13. Confirm that the difference between the angles A and B is within specification. If not, continue the steps 14 through 17.

Specification : $A - B = 0 \pm 10^\circ$



Vector



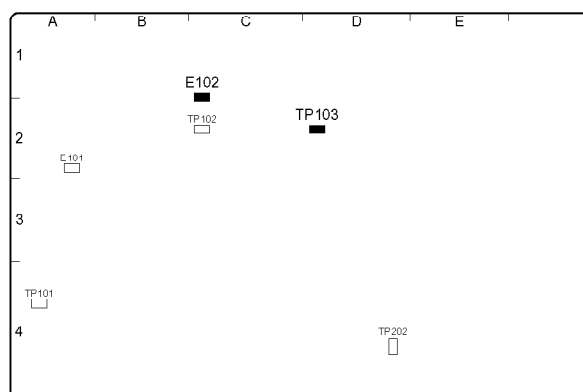
Oscilloscope

Perform the following steps 14 through 17 only when the specification of step 13 is not satisfied.

14. Start up the maintenance mode.
(Refer to Section 9-1-1.)
15. Select "A20 : VPR/TG VR."
16. Add/subtract 1 to/from the data value of "REF 1ST FLD DET".
- Note**
- The increase/decrease of data value depends on the relationship between the angles A and B measured in steps 8 and 11. (To change the data value, press and turn the JOG dial.)
- A > B : Subtract 1 from the data value.
(Turn the JOG dial in UPWARD direction)
- B > A : Add 1 to the data value.
(Turn the JOG dial in DOWNWARD direction)
17. Press the MENU button once to exit from A20 : VPR/TG VR.
18. Repeat from step 7.

Perform the following steps 19 through 21 only when the REF 1ST FLD DET's data value of A20 : VPR/TG VR is changed.

19. Saving data
Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
20. Check that the message "Save Complete" is displayed on the monitor.
21. Press the MENU button once to exit from A2F : NV-RAM CONTROL.
22. Press the MENU button three times to exit from the maintenance mode.



TG-191 Board (A Side)

9-7-5. Switching to 625/50 System

1. Video System Setting

Set the unit to 625/50 system with setup menu ITEM-013.
 (Refer to Section 1-19-2.)

2. Sub menu Setting

(Regarding the sub menu setting, refer to Section 2 of operation manual.)

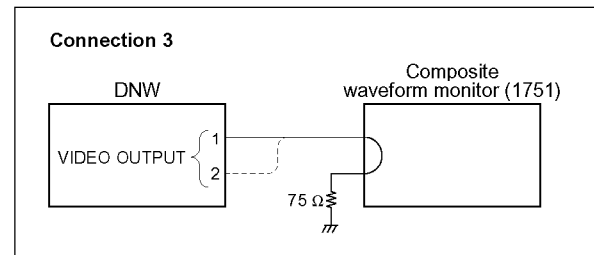
- General setting page
 - SUPER → ON
- Video setting page
 - PROCESS CONTROL → PANEL
 - Y/C DLY → 800 PRESET
 - SYNC PH → 80
 - SC PH → 80

9-7-6. Composite Video Output Level Adjustment (625/50 system)

Note

Allow 30 minutes to begin adjustment after the unit is powered on.

Measuring equipment : Composite waveform monitor



1. Connect the composite waveform monitor as shown in Connection 3.
2. Activate the maintenance mode.
 (Refer to Section 9-1-1.)
3. Select C2 : AUDIO/VIDEO CHECK.
4. Select C21 : VIDEO TEST SG.
5. Video signal selection
 Press and turn the JOG dial slowly until a test signal name "100 % Color Bars" is displayed.
6. Press the MENU button once to exit from C21 : VIDEO TEST SG.
7. Press the MENU button again to exit from C2 : AUDIO/VIDEO CHECK.
8. Select A2 : AUDIO/VIDEO ADJUST.
9. Select A20 : VPR/TG VR.

10. Adjustment and check

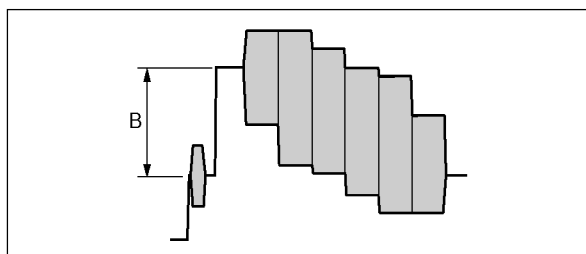
Adjust the level at white signal portion so that the specification is satisfied.

Adjustment point : A20 : VPR/TG VR : VIDEO LEVEL

Specification : $B - 700 \pm 7 \text{ mV}$

Notes

- It is impossible to adjust the outputs of VIDEO OUTPUT 1 and 2 (SUPER) connectors separately.
 - Check operation only is enabled for the output of VIDEO OUTPUT 2 (SUPER) connector.
- When observing the VIDEO OUTPUT 2 (SUPER) connector output, set "SUPER" in sub menu to OFF.
 (Refer to the operation manual, Section 2-9.)



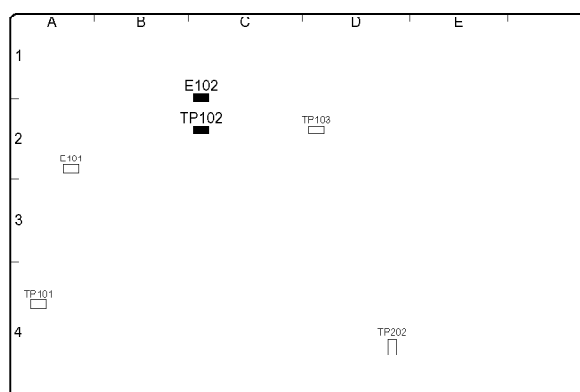
11. Press the MENU button so as to exit from A20 : VPR/TG VR.
12. Saving data
Select A2F : NV-RAM CONTROL of the maintenance mode, then execute "SAVE ALL ADJUST DATA."
13. Check that the message "Save Complete" is displayed on the monitor.
14. Press the MENU button to exit from A2F : NV-RAM CONTROL.
15. Press the MENU button three times to exit from the maintenance mode.

9-7-7. Internal 4 fsc Frequency Adjustment (625/50 system)

Measuring equipment : Frequency counter

1. Supply no signal to REF. VIDEO connector.
2. Connect the frequency counter to TP102/TG-191(C-2).
GND : E102/TG-191(C-1)
3. Start up the maintenance mode.
(Refer to Section 9-1-1.)
4. Select "A20 : VPR/TG VR."
5. Adjust frequency as follows :
Adjustment point : A20 : VPR/TG VR : INT 4 FSC
FREQ
Specification : $17,734,475 \pm 50 \text{ Hz}$

6. Saving data
Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
7. Check that the message "Save Complete" is displayed on the monitor.
8. Press the MENU button to exit from A2F : NV-RAM CONTROL.
9. Press the MENU button three times to exit from the maintenance mode.

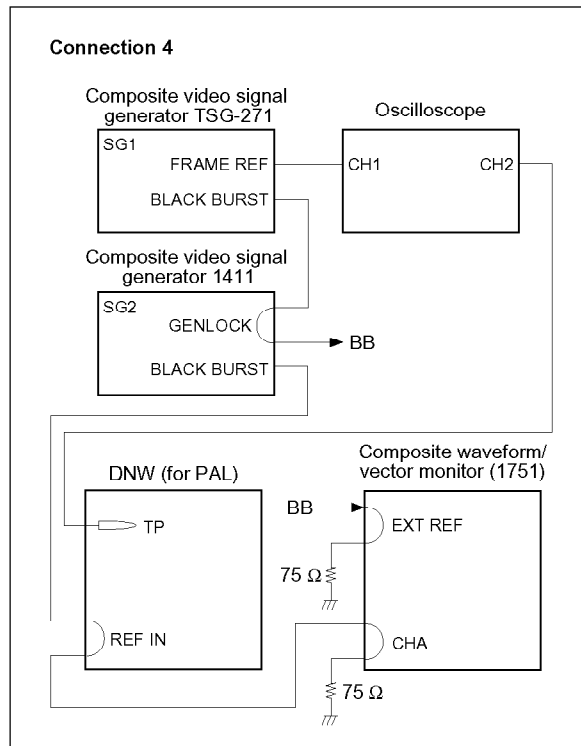


TG-191 Board (A Side)

9-7-8. Reference Color Frame Pulse Confirmation (for DNW-A28P only)

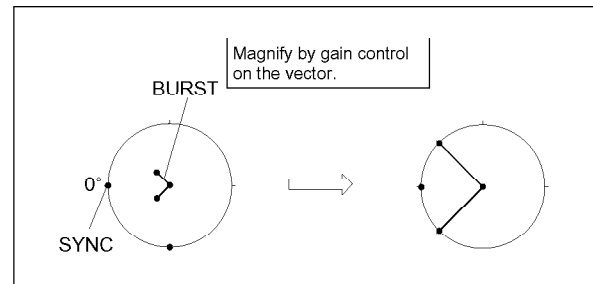
This adjustment is unnecessary for DNW-A28.

Measuring equipment : Component waveform/vector monitor and Oscilloscope



1. Connect the video signal generator, component waveform/vector monitor (called “vector” after this), and oscilloscope as shown in Connection 4.

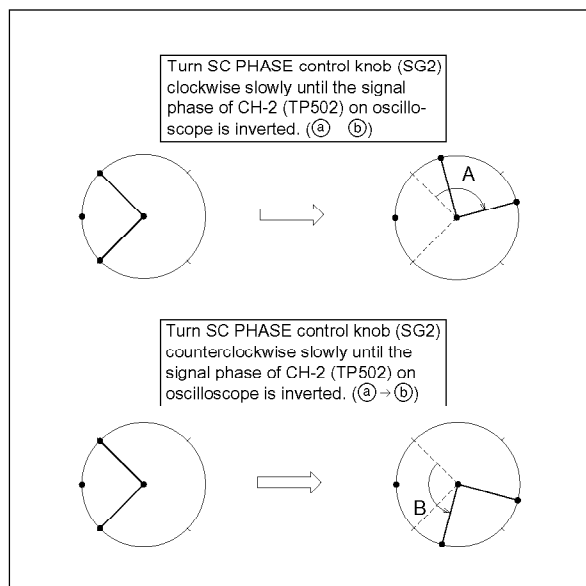
2. Set the vector as follows.
SCH mode, INPUT : CH-A, EXT REF
3. Align the SYNC phase with 0 degree using the vector’s PHASE control so that the beam spot (SYNC)



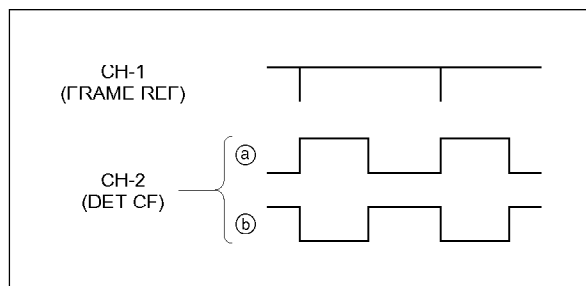
4. moves in the shortest route. (See the figure below.)
4. Align the BURST signal with its reference position on the vector using the signal generator SG2’s SC PHASE control.
5. Align the beam spot (s) on the BURST signal with the circle scale on the vector using the gain control of the vector.
6. Connect and set the oscilloscope as follows :
Display : ALT mode
CH-1 : DC 2 V/DIV
(Connected to SG1’s FRAME REF output)
CH-2 : TP103/TG-191P (D-2), DC 2 V/DIV
GND : E102/TG-191P (C-1)
TIME : 20 ms/DIV
Trigger : CH-1
7. Turn the signal generator SG2’s SC PHASE control counterclockwise \odot slowly until the waveform of the oscilloscope’s CH-2 (DET CF) changes from (a) to (b).
8. Measure the BURST phase (angle A) on the vector just when the waveform of the oscilloscope changes.
9. Turn the SG2’s SC PHASE control clockwise \odot to return the BURST signal on the vector to its normal position.
10. Turn the signal generator SG2’s SC PHASE control clockwise \odot slowly until the waveform of the oscilloscope’s CH-2 (DET CF) changes from (a) to (b).
11. Measure the BURST phase (angle B) on the vector just when the waveform of the oscilloscope changes.
12. Turn the SG2’s SC PHASE control counterclockwise \odot to return the BURST signal on the vector to its normal position.

13. Confirm that the difference between the angles A and B is within specification. If not, continue the steps 14 through 17.

Specification : $A - B = 0 \pm 10^\circ$



Vector



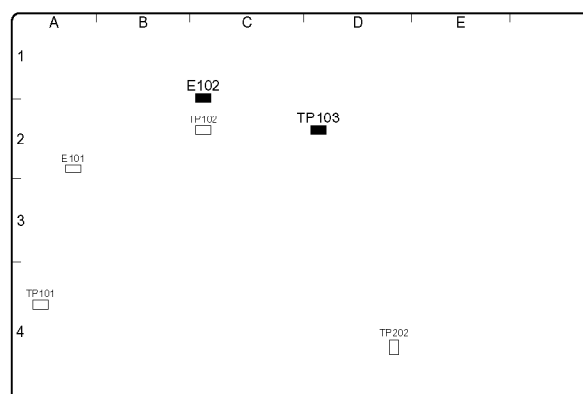
Oscilloscope

Perform the following steps 14 through 18 only when the specification of step 13 is not satisfied.

14. Start up the maintenance mode.
(Refer to Section 9-1-1.)
 15. Select "A20 : VPR/TG VR."
 16. Add/subtract 1 to/from the data value of "REF 1ST FLD DET."
- Note**
- The increase/decrease of data value depends on the relationship between the angles A and B measured in steps 8 and 11. (To change the data value, press and turn the JOG dial.)
- A>B : Subtract 1 from the data value.
(Turn the JOG dial in UPWARD direction)
- B>A : Add 1 to the data value.
(Turn the JOG dial in DOWNWARD direction)
17. Press the MENU button once to exit from A20 : VPR/TG VR.
 18. Repeat from step 7.

Perform the following steps 19 through 21 only when the REF 1ST FLD DET's data value of A20 : VPR/TG VR is changed.

19. Saving data
Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
20. Check that the message "Save Complete" is displayed on the monitor.
21. Press the MENU button once to exit from A2F : NV-RAM CONTROL.
22. Press the MENU button three times to exit from the maintenance mode.
23. Return all the settings established in Section 9-7-1 "Preparation" to their normal states.



TG-191 Board (A Side)

9-8. Composite Decoder

The EEPROM (IC34/DEC-97) is storing adjustment data for the DEC-97 board. After replacing this EEPROM or the DEC-97 board, be sure to perform adjustments for the following all items.

Note

Adjustments for composite decoder are required for both 525/60 system and 625/50 system.

Adjustment Items

No.	Item	Adjustment point	Test point
1.	Preparation		
2.	Pedestal level adjustment	A25 : DEC VR : PEDESTAL	VIDEO OUTPUT 1
	(525/60 system)	Data save A2F : NV-RAM CONTROL	
3.	Analog composite input level adjustment		
	(525/60 system)	A26 : DEC VR (LOOP) : VIDEO GAIN	VIDEO OUTPUT 2 (SUPER)
		Data save A2F : NV-RAM CONTROL	
4.	Pedestal level check (525/60 system)	Check only	VIDEO OUTPUT 1
5.	Composite Input color frame detect adjustment		
	(525/60 system)	A24 : INPUT CF DETECT	VIDEO OUTPUT 1
		Data save A2F : NV-RAM CONTROL	
6.	Switching to 625/50 system		
7.	Pedestal level adjustment	A25 : DEC VR : PEDESTAL	VIDEO OUTPUT 1
	(625/50 system)	Data save A2F : NV-RAM CONTROL	
8.	Analog composite input level adjustment		
	(625/50 system)	A26 : DEC VR (LOOP) : VIDEO GAIN	VIDEO OUTPUT 2 (SUPER)
		Data save A2F : NV-RAM CONTROL	
9.	Pedestal level check (625/50 system)	Check only	VIDEO OUTPUT 1
10.	Composite Input color frame detect adjustment		
	(625/50 system)	A24 : INPUT CF DETECT	VIDEO OUTPUT 1
		Data save A2F : NV-RAM CONTROL	

Equipment

Oscilloscope (TEKTRONIX 2465B or equivalent)

Analog composite NTSC signal generator (TEKTRONIX TSG-170A or equivalent)

Analog composite PAL signal generator (TEKTRONIX TSG-271 or equivalent)

NTSC waveform/vector monitor (TEKTRONIX 1750 or equivalent)

PAL waveform/vector monitor (TEKTRONIX 1751 or equivalent)

Video monitor

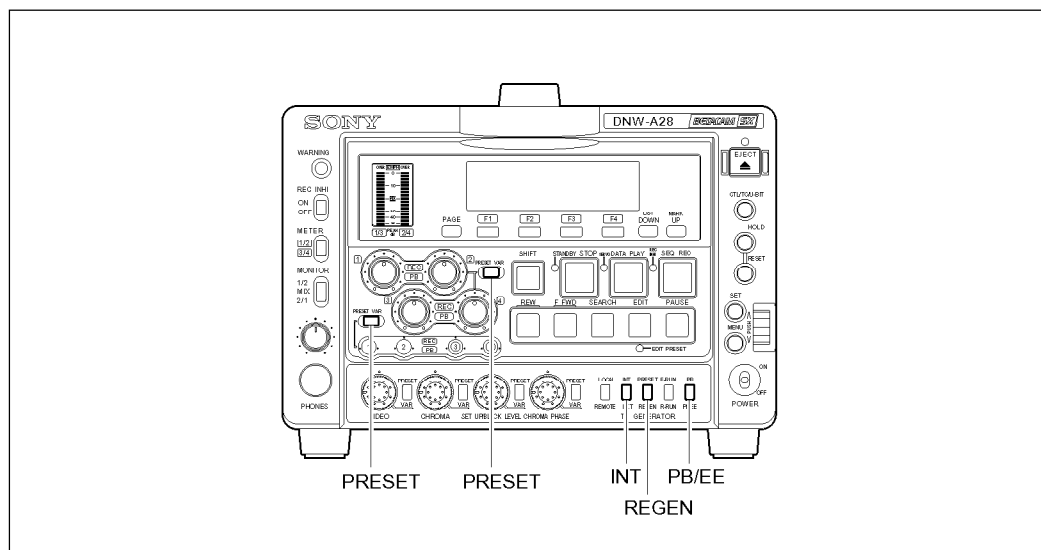
9-8-1. Preparation

Make a photocopy of check sheets given in the Appendix A and write down setup conditions in the check sheets.

1. Setting of S201/SY-259B board

S201-1, 2 → ON

2. Front Panel setting



3. Video System Setting

(Regarding video system setting, refer to Section 1-19-2.)

Confirm that the unit is set to 525/60 system with the setup menu ITEM-013.

4. Sub menu Setting

(Regarding the sub menu setting, refer to Section 2 of operation manual.)

- General setting page
SUPER → ON
- Video setting page
PROCESS CONTROL → PANEL
Y/C DLY → 800 PRESET
SYNC PH → 80
SC PH → 80

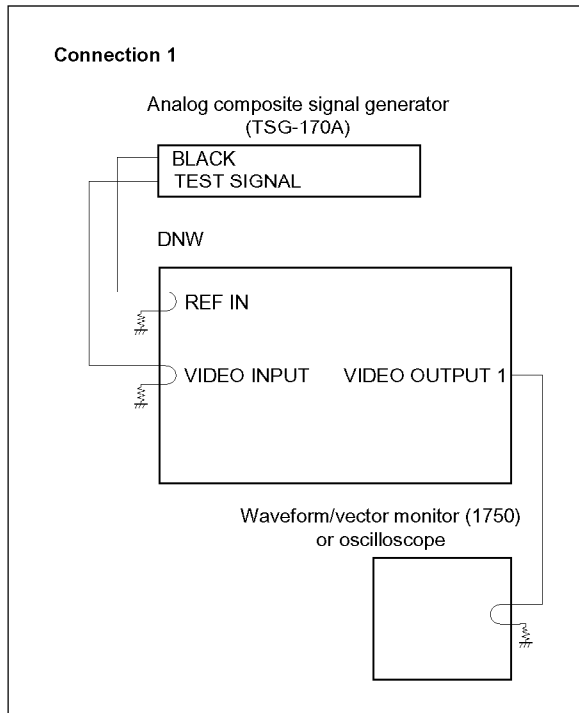
5. Setup menu setting

(Regarding the setup menu setting, refer to Section 1-19, or Section 6 of operation manual.)

ITEM-713 : VIDEO SETUP REFERENCE LEVEL

SUB-ITEM	0 : MASTER LEVEL	→ 0.0 %
	1 : INPUT LEVEL	→ MSTER
	2 : INPUT VBLK CNT	→ THROU
	3 : BETACAM PB LEVEL	→ MSTER
	4 : OUTPUT LEVEL	→ MSTER

9-8-2. Pedestal level Adjustment (525/60 system)

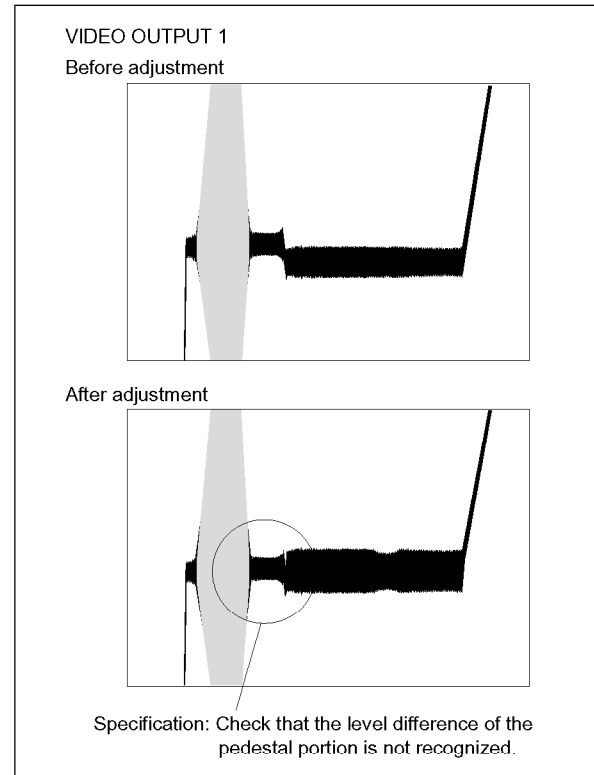


1. Connect equipment as shown in Connection 1.
2. Supply the lamp signal from the signal generator.
3. Observe the burst signal portion of VIDEO OUTPUT 1 output on the waveform monitor or oscilloscope.

Setting of measurement equipment

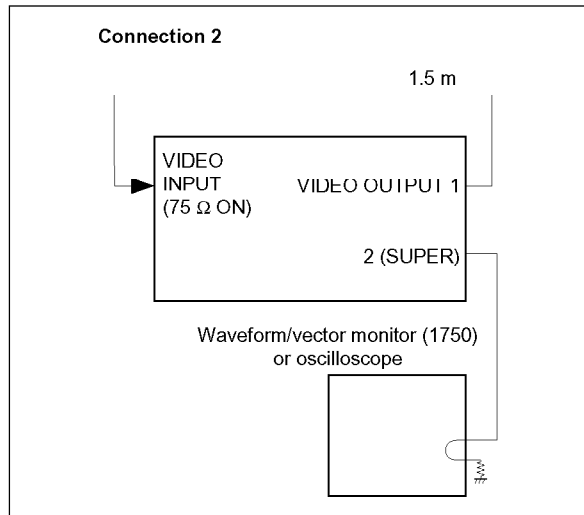
- Waveform monitor
SWEEP : 1 H, MAG
GAIN : $\times 5$
UNCAL : MAX
- Oscilloscope
CH-1 : DC 0.5 mV/DIV, 2 μ s/DIV
20 MHz BW LIMIT : ON

4. Activate the maintenance mode.
(Refer to Section 9-1-1.)
5. Select A25 : DEC VR of A2 : AUDIO/VIDEO ADJUST of the maintenance mode.
6. Select "PEDESTAL".
7. Adjust "PEDESTAL" so that the specification is satisfied.



8. After completing the adjustment, press the MENU button once to exit from A25 : DEC VR.
9. Saving data
Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
10. Check that the message "Save Complete" is displayed on the monitor.
11. Press the MENU button once to exit from A2F : NV-RAM CONTROL.

9-8-3. Analog Composite Input Level Adjustment (525/60 system)



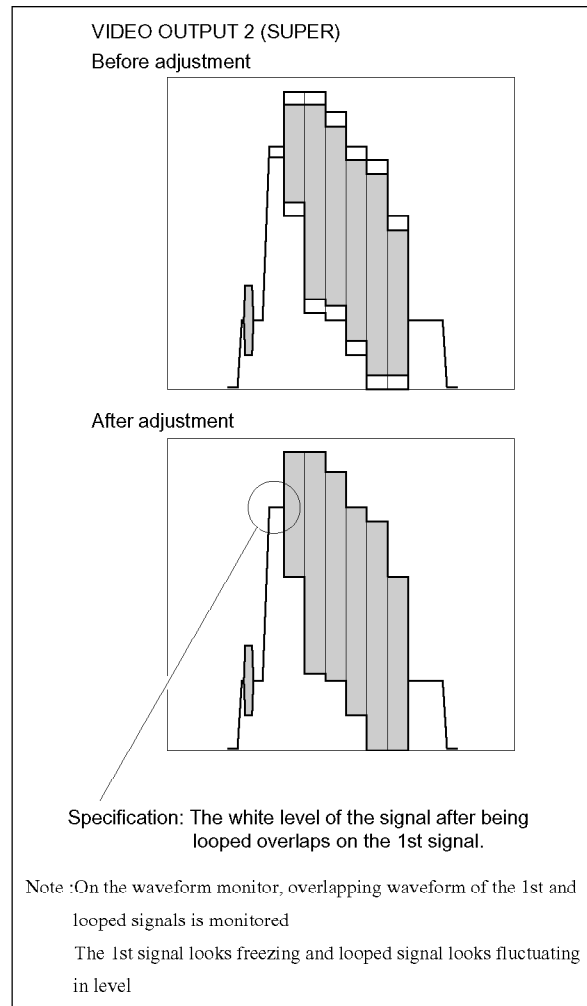
1. Connect equipment as shown in Connection 2.
2. Active the maintenance mode.
(Refer to Section 9-1-1.)
3. Select A26 : DEC VR (LOOP) of A2 : AUDIO/VIDEO ADJUST of the maintenance mode.
4. Select "VIDEO GAIN."

Note

A 100 % color bars signal is output from the video test signal generator in this unit.

5. Set "SUPER" in sub menu to OFF.
(Refer to the operation manual, Section 2-9.)

6. Adjust "VIDEO GAIN" so that the specification is satisfied. Be sure to check the data value by the FL display panel.

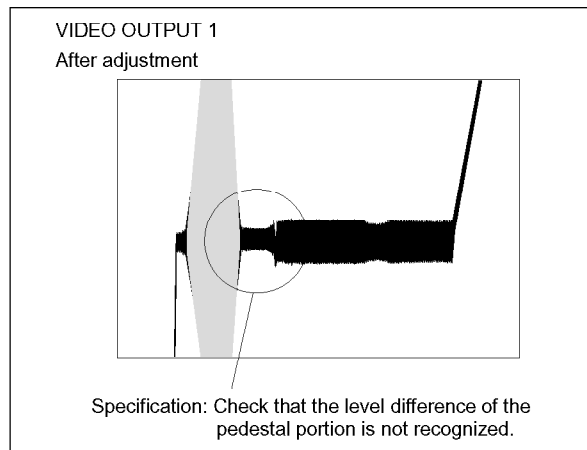


7. Set "SUPER" in sub menu to ALL/MENU.
(Refer to the operation manual, Section 2-9.)
8. After completing the adjustment, press the MENU button once to exit from A26 : DEC VR (LOOP).
9. Saving data
Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
10. Check that the message "Save Complete" is displayed on the monitor.
11. Press the MENU button once to exit from A2F : NV-RAM CONTROL.

9-8-4. Pedestal Level Check (525/60 system)

Check the pedestal level after completing up to Section 9-8-3. "Analog Composite Input Level Adjustment".

1. Connect equipment as shown in Connection 1 of Section 9-8-2.
2. Supply the lamp signal from the signal generator.
3. Observe the burst signal portion of VIDEO OUTPUT 1 output with the waveform monitor or oscilloscope.
 Setting of measurement equipment
 - Waveform monitor
 SWEEP : 1 H, MAG
 GAIN : $\times 5$
 UNCAL : MAX
 - Oscilloscope
 CH-1 : DC 0.5 mV/DIV, 2 μ s/DIV
 20 MHz BW LIMIT : ON
4. Check that the waveform of the pedestal portion satisfies the specification.



5. When the specification is not satisfied, perform Section 9-8-2. "Pedestal Level Adjustment" again.

9-8-5. Composite Input Color Frame Detect Adjustment (525/60 system)

Note

Check that the video output SCH from the test signal generator is within $0 \pm 5^\circ$.

1. Connect equipment as shown in Connection 1 of Section 9-8-2.
2. Active the maintenance mode.
 (Refer to Section 9-1-1.)
3. Select A2 : AUDIO/VIDEO ADJUST.
4. Select A24 : INPUT CF DETECT.
5. Select "AUTO". = Press the SET button to execute the auto adjustment.
6. Check that the message "Adjust Complete" is displayed on the monitor after completing the adjustment.
7. Saving data
 Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
8. Check that the message "Save Complete" is displayed on the monitor.
9. Press the MENU button once to exit from A2F : NV-RAM CONTROL.
10. Press the MENU button three times to exit from the maintenance mode.

9-8-6. Switching to 625/50 System

1. Video System Setting

Set the unit to 625/50 system with setup menu ITEM-013.
(Refer to Section 1-19-3.)

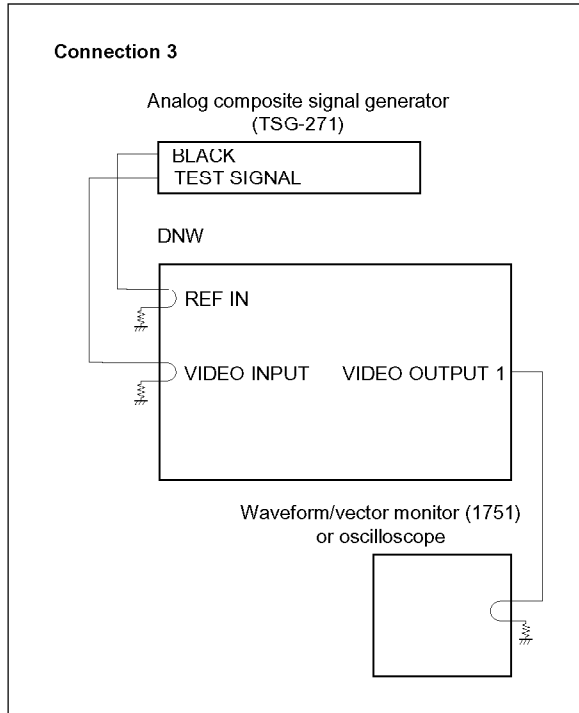
2. Sub menu Setting

(Regarding the sub menu setting, refer to section 2 of operation manual.)

- Home page
VIDEO INPUT → CMPST
- General setting page
SUPER → ON
- Video setting page
PROCESS CONTROL → PANEL
Y/C DLY → 800 PRESET
SYNC PH → 80
SC PH → 80

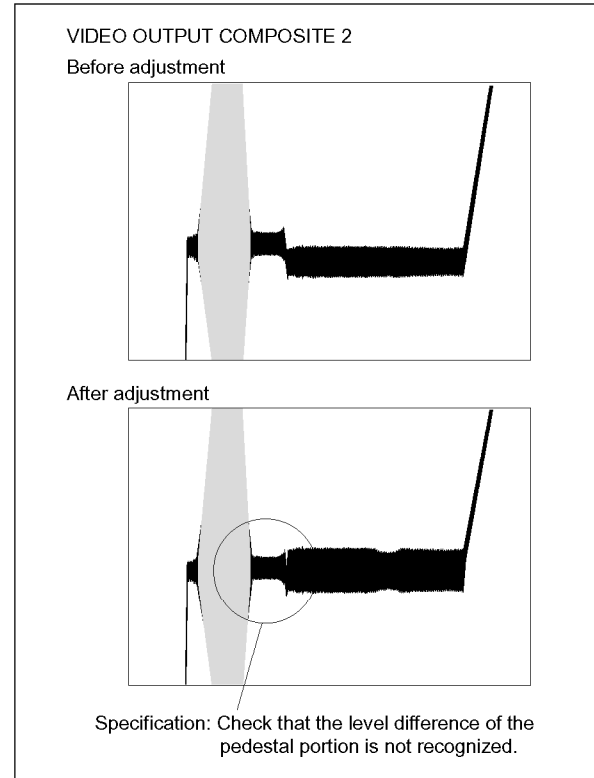


9-8-7. Pedestal level Adjustment (625/50 system)



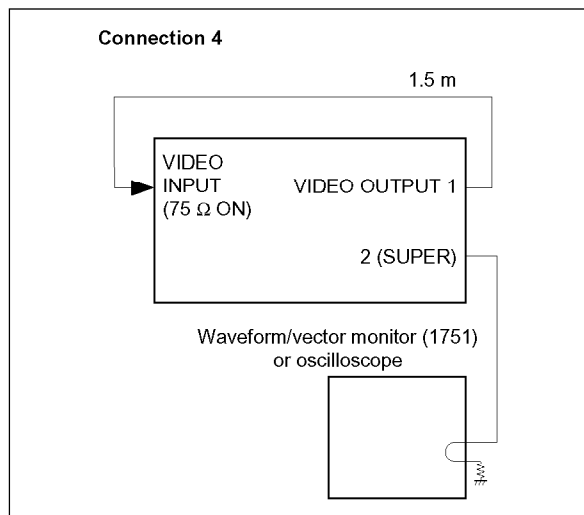
1. Connect equipment as shown in Connection 3.
2. Supply the lamp signal from the signal generator.
3. Observe the burst signal portion of VIDEO OUTPUT 1 output on the waveform monitor or oscilloscope.
Setting of measurement equipment
 - Waveform monitor
SWEEP : 1 H, MAG
GAIN : $\times 5$
UNCAL : MAX
 - Oscilloscope
CH-1 : DC 0.5 mV/DIV, 2 μ s/DIV
20 MHz BW LIMIT : ON
4. Activate the maintenance mode.
(Refer to Section 9-1-1.)
5. Select A25 : DEC VR of A2 : AUDIO/VIDEO ADJUST of the maintenance mode.
6. Select "PEDESTAL."

7. Adjust "PEDESTAL" so that the specification is satisfied.



8. After completing the adjustment, press the MENU button once to exit from A25 : DEC VR.
9. Saving data
Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
10. Check that the message "Save Complete" is displayed on the monitor.
11. Press the MENU button once to exit from A2F : NV-RAM CONTROL.

9-8-8. Analog Composite Input Level Adjustment (625/50 system)



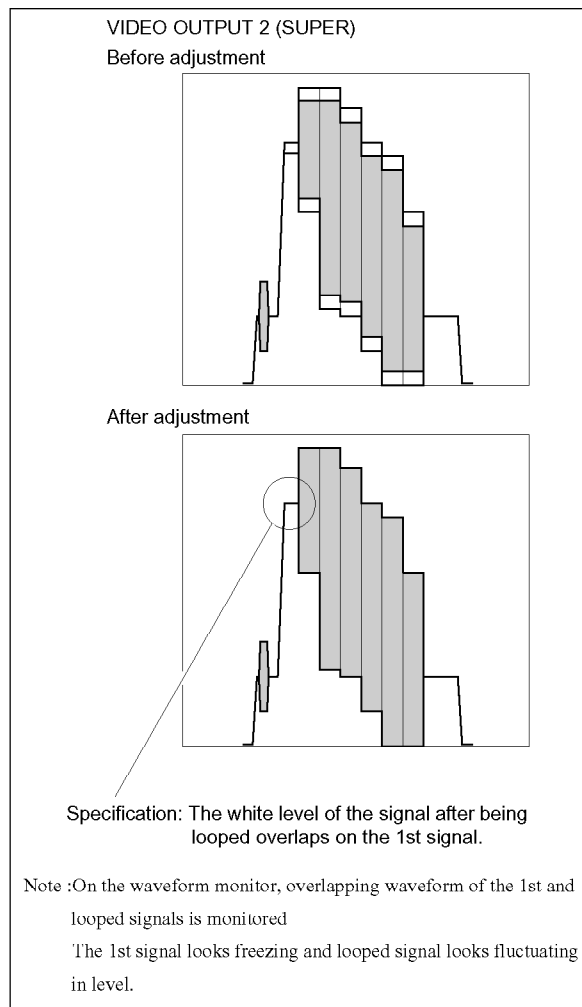
1. Connect equipment as shown in Connection 4.
2. Active the maintenance mode.
(Refer to Section 9-1-1.)
3. Select A26 : DEC VR (LOOP) of A2 : AUDIO/VIDEO ADJUST of the maintenance mode.
4. Select "VIDEO GAIN".

Note

A 100 % color bars signal is output from the video test signal generator in this unit.

5. Set "SUPER" in sub menu to OFF.
(Refer to the operation manual, Section 2-9.)

6. Adjust "VIDEO GAIN" so that the specification is satisfied. Be sure to check the data value by the FL display panel.

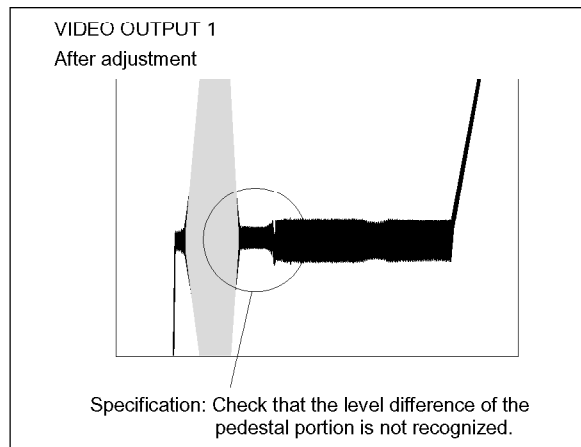


7. Set "SUPER" in sub menu to ALL/MENU.
(Refer to the operation manual, Section 2-9.)
8. After completing the adjustment, press the MENU button once to exit from A26 : DEC VR (LOOP).
9. Saving data
 Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
10. Check that the message "Save Complete" is displayed on the monitor.
11. Press the MENU button once to exit from A2F : NV-RAM CONTROL.

9-8-9. Pedestal Level Check (625/50 system)

Check the pedestal level after completing up to Section 9-8-8. "Analog Composite Input Level Adjustment."

1. Connect equipment as shown in Connection 3 of Section 9-8-7.
2. Supply the lamp signal from the signal generator.
3. Observe the burst signal portion of VIDEO OUTPUT 1 output with the waveform monitor or oscilloscope.
 Setting of measurement equipment
 - Waveform monitor
 SWEEP : 1 H, MAG
 GAIN : $\times 5$
 UNCAL : MAX
 - Oscilloscope
 CH-1 : DC 0.5 mV/DIV, 2 μ s/DIV
 20 MHz BW LIMIT : ON
4. Check that the waveform of the pedestal portion satisfies the specification.



5. When the specification is not satisfied, perform Section 9-8-7. "Pedestal Level Adjustment" again.

9-8-10. Composite Input Color Frame Detect Adjustment (625/50 system)

Note

Check that the video output SCH from the test signal generator is within $0 \pm 5^\circ$.

1. Connect equipment as shown in Connection 3 of Section 9-8-7.
2. Active the maintenance mode.
 (Refer to Section 9-1-1.)
3. Select A2 : AUDIO/VIDEO ADJUST.
4. Select A24 : INPUT CF DETECT.
5. Select "AUTO". = Press the SET button to execute the auto adjustment.
6. Check that the message "Adjust Complete" is displayed on the monitor after completing the adjustment.
7. Saving data
 Select A2F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
8. Check that the message "Save Complete" is displayed on the monitor.
9. Press the MENU button once to exit from A2F : NV-RAM CONTROL.
10. Press the MENU button three times to exit from the maintenance mode.
11. Return all the settings established in Section 9-8-1 "Preparation" to their normal status.

9-9. Analog Betacam Playback Adjustment

The NV-RAMs (IC909, IC1812) on the DM-114/114P board are storing adjustment data for the DM-114/114P. After replacing each NV-RAM, adjustments are required for each. (Adjustment items 1 through 16 for IC909, and 1, 19, 20 and 23 for IC1812). After replacing the DM-114/114P board itself, be sure to perform adjustments for the following all items.

Adjustment Items

No.	Item	Adjustment point	Remarks
1	Preparation		
2	EQ RF output level adjustment		
	METAL Y	A30 : EQ VR : RF GAIN METAL-Y-A A30 : EQ VR : RF GAIN METAL-Y-B	TP101/DM-114
	METAL C	A30 : EQ VR : RF GAIN METAL-C-A A30 : EQ VR : RF GAIN METAL-C-B	TP301/DM-114
	OXIDE C	A30 : EQ VR : RF GAIN OXIDE-C-A A30 : EQ VR : RF GAIN OXIDE-C-B	TP301/DM-114
	OXIDE Y	A30 : EQ VR : RF GAIN OXIDE-Y-A A30 : EQ VR : RF GAIN OXIDE-Y-B	TP101/DM-114
	Saving data	A3F : NV-RAM CONTROL	
3	Cosine equalizer adjustment		
	MFTAI Y	Group delay ϕ RV101/DM-114, ϕ RV102/DM-114	TP105/DM-114
	Main	A33 : DM VR 2 : MAIN METAL-Y-A A33 : DM VR 2 : MAIN METAL-Y-B	TP107/DM-114
	Sub	A34 : DM VR 3 : SUB METAL-Y-A A34 : DM VR 3 : SUB METAL-Y-B	DNW-A28P : TP106/DM-114
	METAL C	Group delay ϕ RV301/DM-114, ϕ RV302/DM-114	TP305/DM-114
	Main	A33 : DM VR 2 : MAIN METAL-C-A A33 : DM VR 2 : MAIN METAL-C-B	TP307/DM-114
	Sub	A34 : DM VR 3 : SUB METAL C A A34 : DM VR 3 : SUB METAL-C-B	DNW-A28P : TP306/DM-114
	OXIDE C	Group delay ϕ RV303/DM-114, ϕ RV304/DM-114	TP305/DM-114
	Main	A33 : DM VR 2 : MAIN OXIDE-C-A A33 : DM VR 2 : MAIN OXIDE-C-B	TP307/DM-114
	Sub	A34 : DM VR 3 : SUB OXIDE-C-A A34 : DM VR 3 : SUB OXIDE-C-B	TP306/DM-114
	OXIDE Y	Group delay ϕ RV104/DM-114	TP105/DM-114
	Main	A33 : DM VR 2 : MAIN OXIDE-Y-A A33 : DM VR 2 : MAIN OXIDE-Y-B	TP107/DM-114
	Sub	A34 : DM VR 3 : SUB OXIDE-Y-A A34 : DM VR 3 : SUB OXIDE-Y-B	TP106/DM-114
	OMC DC offset	A35 : DM VR 4 : OMC DC METAL-Y A35 : DM VR 4 : OMC DC METAL-C A35 : DM VR 4 : OMC DC OXIDE-Y A35 : DM VR 4 : OMC DC OXIDE-C	
	Data Save	A3F : NV-RAM CONTROL	

OMC; Over-Modulation Compensation circuit

(Continued)

(Continued)

No.	Item	Adjustment point	Remarks
4	Cosine equalizer adjustment (provisional)		
	Note		This section explains a provisional adjustment for cosine equalizer without using a network analyzer, as opposed to the adjustment using the network analyzer described above (No.3). Perform this provisional adjustment only when the network analyzer is not available for an urgent maintenance. Be sure to readjust using the network analyzer at a later date.
5	DM RF output level pre-adjustment		
	METAL Y	RV111/DM-114	TP107/DM-114
	METAL C	RV311/DM-114	TP307/DM-114
	OXIDE C	RV312/DM-114	TP307/DM-114
	OXIDE Y	RV112/DM-114	TP107/DM-114
6	OMC carrier balance adjustment		
	OXIDE Y	RV107/DM-114, RV108/DM-114	TP111/DM-114
	OXIDE C	RV307/DM-114, RV308/DM-114	TP309/DM-114
	METAL C	RV305/DM-114, RV306/DM-114	TP309/DM-114
	METAL Y	RV105/DM-114, RV106/DM-114	TP111/DM-114
7	OMC carrier balance adjustment (provisional)		
	Note		This section explains a provisional adjustment for OMC carrier balance without using a spectrum analyzer, as opposed to the adjustment using the spectrum analyzer described above (No.6). Perform this provisional adjustment only when the spectrum analyzer is not available for an urgent maintenance. Be sure to readjust using the spectrum analyzer at a later date.
8	Demodulator limiter balance adjustment		
	Y	RV502/DM-114	TP502/DM-114
	C	RV702/DM-114	TP1201/DM-114
9	Non-liner output level adjustment		
	METAL Y	RV503/DM-114	TP506/DM-114
	METAL C	RV703/DM-114P *	TP706/DM-114P (For DNW-A28P)
	C	RV704/DM-114	TP706/DM-114 (For DNW-A28)
	OXIDE C	RV704/DM-114P	TP706/DM-114P (For DNW-A28P)
	OXIDE Y	RV504/DM-114	TP506/DM-114
10	PB frequency response adjustment		
	METAL Y	A32 : DM VR 1 : EQ1 METAL-Y-A A32 : DM VR 1 : EQ1 METAL-Y-B	SDI OUTPUT (Y CH)
	METAL C	A32 : DM VR 1 : EQ1 METAL-C-A A32 : DM VR 1 : EQ1 METAL-C-B	SDI OUTPUT (R-Y/B-Y CH)
	OXIDE Y	A32 : DM VR 1 : EQ1 OXIDE-Y-A A32 : DM VR 1 : EQ1 OXIDE-Y-B	SDI OUTPUT (Y CH)
	OXIDE C	A32 : DM VR 1 : EQ1 OXIDE-C-A A32 : DM VR 1 : EQ1 OXIDE-C-B	SDI OUTPUT (R-Y/B-Y CH)
	Saving data	A3F : NV-RAM CONTROL	

* RV703 is provided only for DNW-A28P.

(Continued)

(Continued)

No. Item	Adjustment point	Remarks
11 Dropout compensation equalizer adjustment		
	METAL Y ⚙RV109/DM-114	TP113/DM-114
	METAL C ⚙RV309/DM-114	TP312/DM-114
	OXIDE Y ⚙RV110/DM-114	
	OXIDE C ⚙RV310/DM-114	
12 DM RF output level adjustment		
	METAL Y ⚙RV111/DM-114	TP107/DM-114
	METAL C ⚙RV311/DM-114	TP307/DM-114
	OXIDE C ⚙RV312/DM-114	TP307/DM-114
	OXIDE Y ⚙RV112/DM-114	TP107/DM-114
13 RF envelope adjustment		
	Y ⚙RV113/DM-114	TP113/DM-114
	C ⚙RV313/DM-114	TP312/DM-114
	TH H level A36 : DM VR 5 : ENV-TH-H	
	TH L level A36 : DM VR 5 : ENV-TH-L	
	Data save A3F : NV-RAM CONTROL	
14 Search picture adjustment		
	Offset ⚙RV505/DM-114	TP508/DM-114
	Y ⚙RV501/DM-114	TP503/DM-114
	C ⚙RV701/DM-114	TP703/DM-114
	Gain ⚙RV506/DM-114	TP1101/DM-114
15 Guardband width adjustment		
	METAL A35 : DM VR 4 : GUARD BAND METAL-Y A35 : DM VR 4 : GUARD BAND METAL-C	
	OXIDE A35 : DM VR 4 : GUARD BAND OXIDE-Y A35 : DM VR 4 : GUARD BAND OXIDE-C	
	Data save A3F : NV-RAM CONTROL	
16 SDI output level adjustment		
	METAL Y ⚙RV1101/DM-114	SDI OUTPUT (Y CH)
	METAL C ⚙RV1201/DM-114	SDI OUTPUT (R-Y/B-Y CH)
	OXIDE Y ⚙RV504/DM-114	SDI OUTPUT (Y CH)
	OXIDE C ⚙RV704/DM-114	SDI OUTPUT (R-Y/B-Y CH) (For DNW-A28P)

(Continued)

(Continued)

No.	Item	Adjustment point	Remarks
17	VCO lock-in range adjustment		
	Y	RV1401/DM-114	TP1401/DM-114
	C	RV1601/DM-114	TP1601/DM-114
18	VCO free-run adjustment		
	Y DO	RV1402/DM-114	Video monitor
	C DO	RV1605/DM-114	
19	PB video phase adjustment	RV1401/DM-114 A37 : TBC VR : SQ Y RZ	VIDEO OUTPUT 1
20	TBC Y/C delay pre-adjustment		
	METAL	RV1606/DM-114 RV1605/DM-114 RV1601/DM-114 A37 : TBC VR : SQ C RZ RV1602/DM-114	SDI OUTPUT
21	Impact error offset adjustment		
	Y	RV1301/DM-114	Video monitor
	C	RV1501/DM-114	
22	TBC Y/C delay adjustment		
	METAL	RV1601/DM-114 RV1602/DM-114	SDI OUTPUT
	OXIDE	RV1603/DM-114 RV1604/DM-114	SDI OUTPUT
23	VISC phase adjustment	RV1801/DM-114 A37 : TBC VR : VISC PHASE	VIDEO OUTPUT 1
	Data save	A3F : NV-RAM CONTROL	

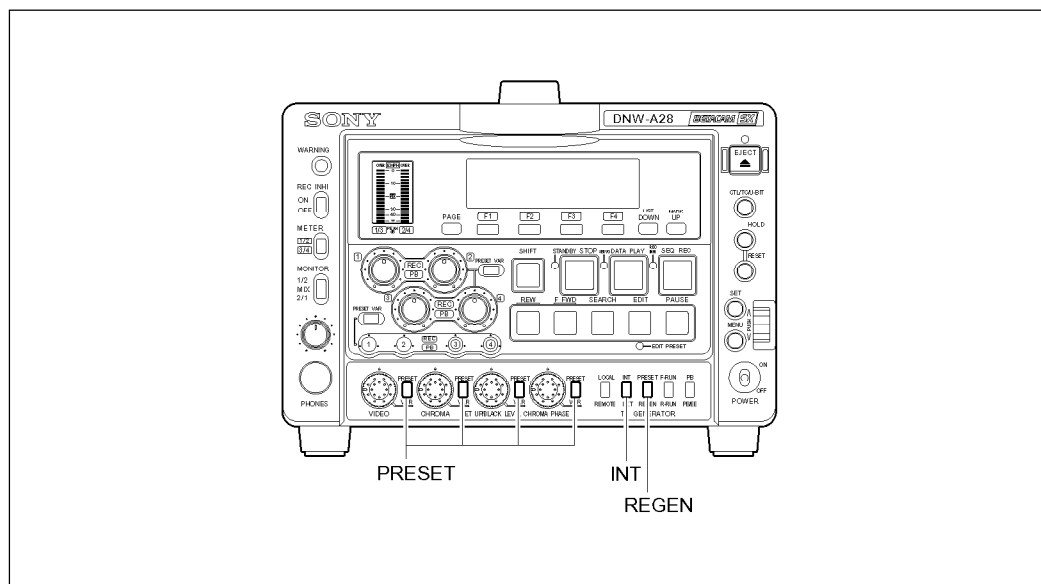
9-9-1. Preparation

Make a photocopy of check sheets given in the Appendix A and write down setup conditions in the check sheets.

1. Setting of S201/SY-259B board

S201-1, 2 (B-1) → ON

2. Front Panel setting



3. Default Setting

Default setting is not necessary to perform except below.

Setting/adjustment required after replacing IC909

- For DNW-A28
 1. Set the unit to 625/50 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
 2. Set the default setting of A32 through A36 with maintenance mode and save the data. (Refer to Section 3-2-9.)
 3. Switch the unit to 525/60 system by selecting the setup menu ITEM-013 and then set the default for each item of the maintenance mode A32 to A36 and save the data.
 4. After making settings described in steps 4 (video system setting) and later, perform adjustments from Sections 9-9-2 to 9-9-16.
- For DNW-A28P
 1. Set the unit to 525/60 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
 2. Set the default setting of A32 through A36 with maintenance mode and save the data. (Refer to Section 3-2-9.)
 3. Switch the unit to 625/50 system by selecting the setup menu ITEM-013 and then set the default for each item of the maintenance mode A32 to A36 and save the data.
 4. After making settings described in steps 4 (video system setting) and later, perform adjustments from Sections 9-9-2 to 9-9-16.

Setting/adjustment required after replacing IC1812

- For DNW-A28
 1. Set the unit to 625/50 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
 2. Set the default setting of A37 with maintenance mode and save the data. (Refer to Section 3-2-9.)
 3. Switch the unit to 525/60 system by selecting the setup menu ITEM-013 and then set the default for each item of the maintenance mode A37 and save the data.
 4. After making settings described in steps 4 (video system setting) and later, confirm that the specifications in Sections 9-9-19, 9-9-20 and 9-9-23 are satisfied.
- For DNW-A28P
 1. Set the unit to 525/60 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
 2. Set the default setting of A32 through A36 with maintenance mode and save the data. (Refer to Section 3-2-9.)
 3. Switch the unit to 625/50 system by selecting the setup menu ITEM-013 and then set the default for each item of the maintenance mode A37 and save the data.
 4. After making settings described in steps 4 (video system setting) and later, confirm that the specifications in Sections 9-9-19, 9-9-20 and 9-9-23 are satisfied.

Setting/adjustment required after replacing DM-114/114P board

- For DNW-A28
 1. Set the unit to 625/50 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
 2. Set the default setting of A32 through A37 with maintenance mode and save the data.
(Refer to Section 3-2-9.)
 3. Switch the unit to 525/60 system by selecting the setup menu ITEM-013 and then set the default for each item of the maintenance mode A32 to A37 and save the data.
 4. After making settings described in steps 4 (video system setting) and later, perform all adjustments of Sections 9-9-2 and later.
- For DNW-A28P
 1. Set the unit to 525/60 system with setup menu ITEM-013. (Refer to Section 1-19-3.)
 2. Set the default setting of A32 through A37 with maintenance mode and save the data.
(Refer to Section 3-2-9.)
 3. Switch the unit to 625/50 system by selecting the setup menu ITEM-013 and then set the default for each item of the maintenance mode A32 to A37 and save the data.
 4. After making settings described in steps 4 (video system setting) and later, perform all adjustments of Sections 9-9-2 and later.



Item of A3 : BETACAM ADJUST		DNW-A28 525/60	625/50	DNW-A28P 625/50	525/60
A32 : DM VR 1	FQ1 MFTAI -Y-A	85	8A	8F	9C
	EQ1 METAL-Y-B	85	8A	8F	9C
	EQ1 METAL-C-A	74	73	7E	7E
	EQ1 METAL-C-B	74	73	7E	7E
	EQ1 OXIDE-Y-A	AA	A2	9F	A1
	EQ1 OXIDE-Y-B	AA	A2	9F	A1
	EQ1 OXIDE-C-A	A6	96	B1	AA
	EQ1 OXIDE-C-B	A6	96	B1	AA
A33 : DM VR 2	MAIN METAL-Y-A	BF	BF	B4	B4
	MAIN METAL-Y-B	BF	BF	B4	B4
	MAIN METAL-C-A	94	94	94	94
	MAIN METAL-C-B	94	94	94	94
	MAIN OXIDE-Y-A	B3	B3	B4	B4
	MAIN OXIDE-Y-B	B3	B3	B4	B4
	MAIN OXIDE-C-A	A4	A4	A5	A5
	MAIN OXIDE-C-B	A4	A4	A5	A5
A34 : DM VR 3	SUB METAL-Y-A	B0	E0	B5	98
	SUB METAL-Y-B	B0	E0	B5	98
	SUB METAL-C-A	70	70	98	70
	SUB METAL-C-B	70	70	98	70
	SUB OXIDE-Y-A	BC	BC	C9	C9
	SUB OXIDE-Y-B	BC	BC	C9	C9
	SUB OXIDE-C-A	90	90	90	90
	SUB OXIDE-C-B	90	90	90	90
A35 : DM VR 4	GUARD BAND METAL-Y	35	36	36	35
	GUARD BAND METAL-C	29	36	36	29
	GUARD BAND OXIDE-Y	2D	2D	2D	2D
	GUARD BAND OXIDE-C	2E	2E	2E	2E
	OMC DC METAL-Y	E4	E4	E4	E4
	OMC DC METAL C	D0	D0	D0	D0
	OMC DC OXIDE-Y	D0	D0	D0	D0
	OMC DC OXIDE-C	D0	D0	D0	D0
A36 : DM VR 5	DO TH METAL-Y	0E	17	17	0E
	DO TH METAL-C	0D	14	14	0D
	DO TH OXIDE-Y	25	25	25	25
	DO TH OXIDE-C	25	25	25	25
	ENV-TH-H	20	20	20	20
	ENV-TH-L	10	10	10	10
A37 : TRC VR	SQ Y R7	45	44	44	45
	SQ C RZ	65	64	64	65
	VISC PHASE	06	06	06	06

4. Video System Setting

(Regarding video system setting, refer to Section 1-19-2.)

- For DNW-A28, confirm that the unit is set to 525/60 system with the setup menu ITEM-013.
- For DNW-A28P, confirm that the unit is set to 625/50 system with the setup menu ITEM-013.

5. Sub menu Setting

(Regarding the sub menu setting, refer to Section 2 of operation manual.)

- General setting page
SUPER → ON
- Video setting page
PROCESS CONTROL → PANEL
Y/C DLY → 800 PRESET
SYNC PH → 80
SC PH → 80

6. Setup menu setting

(Regarding the setup menu setting, refer to Section 1-19, or Section 6 of operation manual.)

- For DNW-A28
ITEM-713 :VIDEO SETUP REFERENCE LEVEL
SUB-ITEM 0 : MASTER LEVEL → 7.5 %
1 : INPUT LEVEL → MSTER
2 : INPUT VBLK CNT → THROU
3 : BETACAM PB LEVEL → MSTER
4 : OUTPUT LEVEL → MSTER
- For DNW-A28P
No setting required

7. Time data display setting

Press the CTL/TC/U-BIT button on the front panel to indicate TC on the display.

8. Setting RV1606

Fully turn RV1606/DM-114 (*F-5) counterclockwise (↺) in advance.

2. METAL C adjustment

1. Change the connection of the oscilloscope as follows :

CH-1 : TP311/DM-114 (*N-7)
 GND : E303/DM-114 (*N-6)
 CH-2 : TP301/DM-114 (*P-5)
 GND : E301/DM-114 (*P-5)

Trigger : CH-1

2. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Notes

Adjust respectively for C-A and C-B channels.

Observing the C-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the C-B channel, set the trigger of oscilloscope to the positive (+) slope.

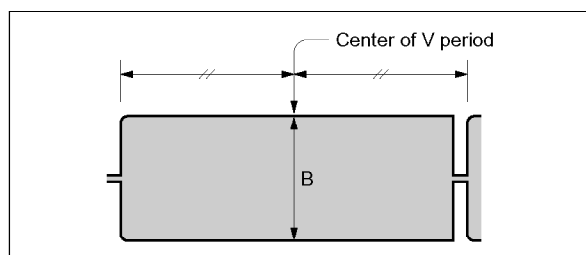
Adjustment points :

C-A channel : A30 : EQ VR : RF GAIN METAL-C-A

C-B channel : A30 : EQ VR : RF GAIN METAL-C-B

Specifications (C-A and C-B channels) :

$B = 380 \pm 20 \text{ mV p-p}$



3. Eject the alignment tape.

3. OXIDE C adjustment

1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Note

Adjust respectively for C-A and C-B channels.

Observing the C-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the C-B channel, set the trigger of oscilloscope to the positive (+) slope.

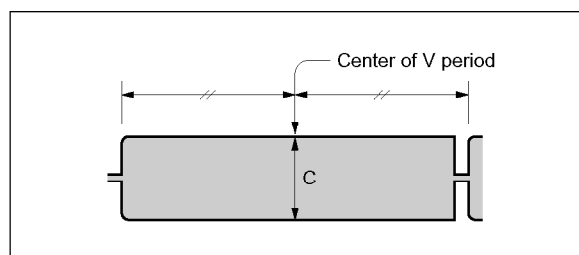
Adjustment points :

C-A channel : A30 : EQ VR : RF GAIN OXIDE-C-A

C-B channel : A30 : EQ VR : RF GAIN OXIDE-C-B

Specifications (C-A and C-B channels) :

$C = 250 \pm 20 \text{ mV p-p}$



2. Stop the playback of the alignment tape.

4. OXIDE Y adjustment

1. Change the connection of the oscilloscope as follows :

CH-1 : TP112/DM-114 (*N-4)

GND : E103/DM-114 (*N-4)

CH-2 : TP101/DM-114 (*P-4)

GND : E101/DM-114 (*P-4)

Trigger : CH-1

2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Notes

Adjust respectively for Y-A and Y-B channels.

Observing the Y-A channel, set the trigger of oscilloscope to the negative (−) slope.

Observing the Y-B channel, set the trigger of oscilloscope to the positive (+) slope.

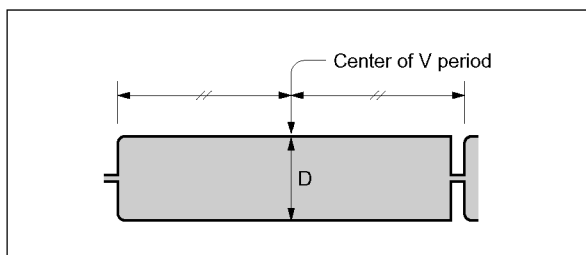
Adjustment points :

Y-A channel : A30 : EQ VR : RF GAIN OXIDE-Y-A

Y-B channel : A30 : EQ VR : RF GAIN OXIDE-Y-B

Specifications (Y-A and Y-B channels) :

$D = 250 \pm 20$ mV p-p

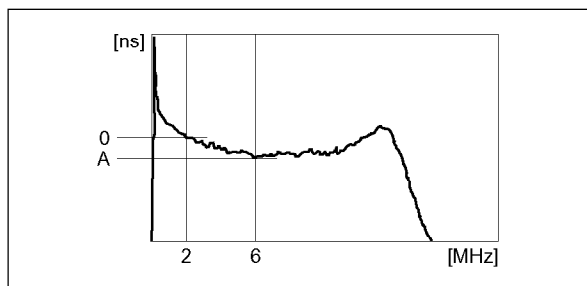


3. Eject the alignment tape.
4. To exit from A30 : EQ VR, press the MENU button once on the front panel.

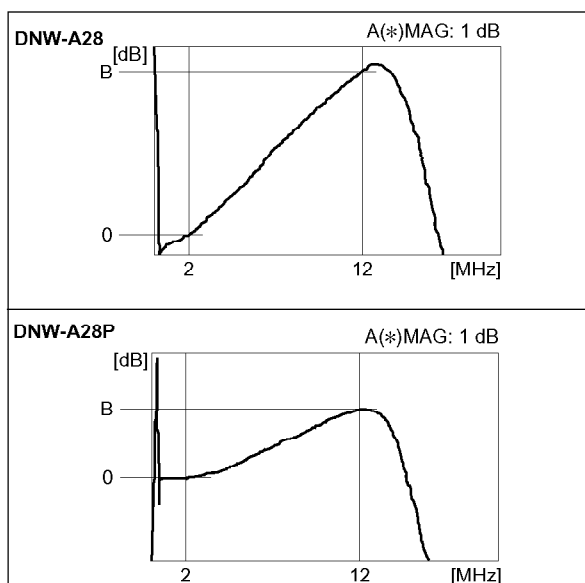
5. Saving data

1. Select A3F : NV-RAM CONTROL of the maintenance mode, then execute "SAVE ALL ADJUST DATA".
2. Check that the message "Save Complete" is displayed on the monitor.
3. To exit from A3F : NV-RAM CONTROL, press the MENU button once.
4. To exit the maintenance mode, press the MENU button three times.

5. For DNW-A28 only
Adjust the delay time of 6 MHz against 2 MHz until satisfy the specification.
Adjustment Point : $\text{RV101/DM-114 (*P-2)}$
Specification : $A = -10 \pm 3 \text{ ns}$



6. Start up the maintenance mode.
(Refer to Section 9-1-1.)
7. Select "A33 : DM VR 2."
8. Connect oscilloscope's CH-2 to TP107/DM-114 (*N-3).
GND : E103/DM-114 (*N-4)
9. METAL Y, Main adjustment
 - (1) Adjust the level difference between 12 MHz and 2 MHz until satisfy the specification.
Adjustment point :
A33 : DM VR 2 : MAIN METAL-Y-A
Specification : DNW-A28 : $B = +8.0 \pm 0.5 \text{ dB}$
DNW-A28P : $B = +1.5 \pm 0.5 \text{ dB}$



- (2) Set the data value of A33 : DM VR 2 : MAIN METAL-Y-B to the identical data value as MAIN METAL-Y-A.

10. To exit from A33 : DM VR 2, press the MENU button once.
11. Select A34 : DM VR 3 of the maintenance mode.
12. METAL Y, Sub adjustment

For DNW-A28

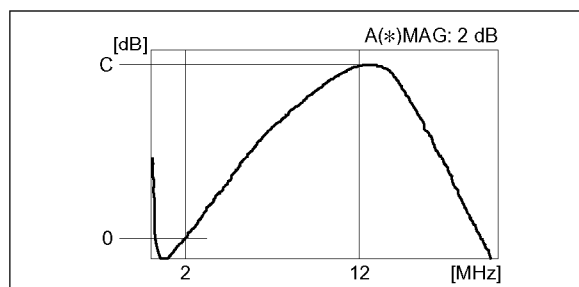
Set the data values of A34 : DM VR 3 : SUB METAL-Y-A and SUB METAL-Y-B to B0.

For DNW-A28P

- (1) Connect oscilloscope's CH-2 to TP106/DM-114 (*N-3).
GND : E103/DM-114 (*N-4)
- (2) Adjust the level difference between 12 MHz and 2 MHz until satisfy the specification.
Adjustment point :

A34 : DM VR 3 : SUB METAL-Y-A

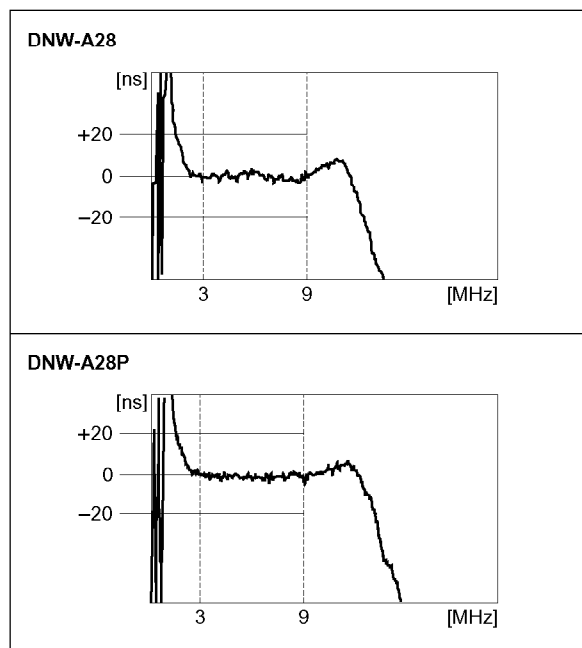
Specification : $C = +16.5 \pm 1.0 \text{ dB}$



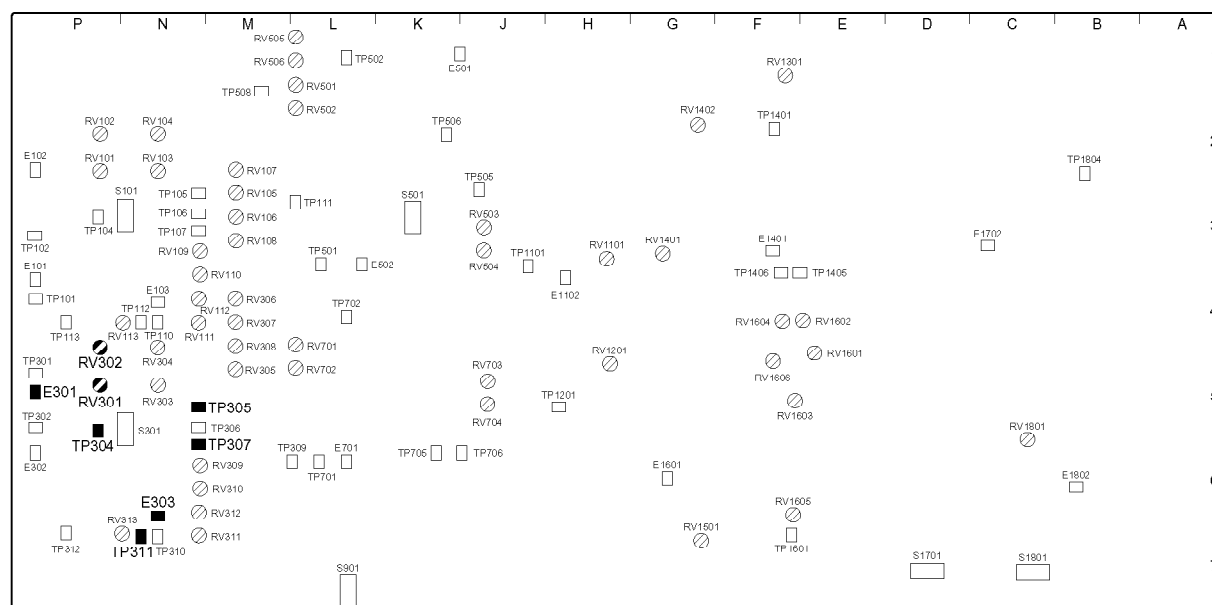
- (3) Set the data value of A34 : DM VR 3 : SUB METAL-Y-A and SUB METAL-Y-B to B0.
13. To exit from A34 : DM VR 3, press the MENU button once.
14. Disconnect the shorting clip from TP112/DM-114 (*N-4).

2. METAL C adjustment

1. Short-circuit between TP311/DM-114 (*N-7) and E303/DM-114 (*N-6) with a shorting clip.
2. Connect the output of network analyzer to TP304/DM-114 (*P-5).
GND : E301/DM-114 (*P-5)
3. Connect the oscilloscope's CH-2 to TP305/DM-114 (*N-5).
GND : E303/DM-114 (*N-6)
4. METAL C, Group delay adjustment
Adjust the group delay time from 3 MHz to 9 MHz to satisfy the specification.
Adjustment points : ●RV301/DM-114 (*P-5) and ●RV302/DM-114 (*P-4)
Specification : 0 ± 20 ns
5. Connect the oscilloscope's CH-2 to TP307/DM-114 (*N-6).
GND : E303/DM-114 (*N-6)
6. Select A33 : DM VR 2 of the maintenance mode.



METAL C



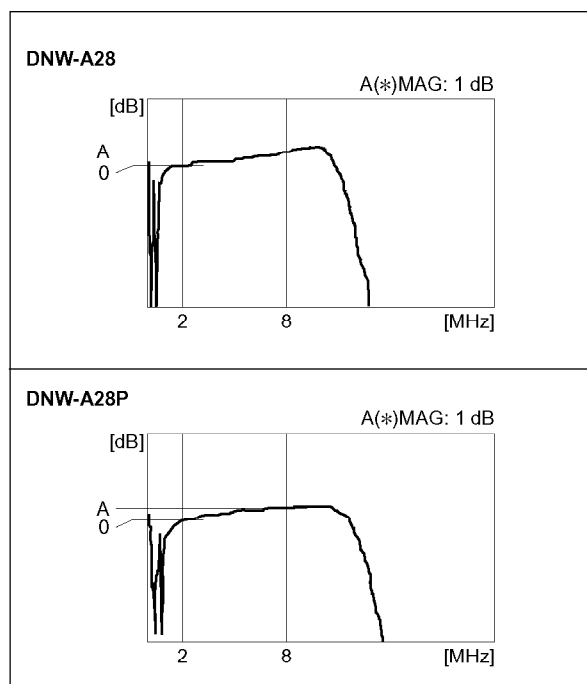
DM-114 Board (B Side)

7. METAL C, Main adjustment

- (1) Adjust the level difference between 8 MHz and 2 MHz until satisfy the specification.

Adjustment point : A33 : DM VR 2 : MAIN
METAL-C-A

Specification : $A = +0.5 \pm 0.5$ dB



- (2) Set the data value of A33 : DM VR 2 : MAIN METAL-C-B to the identical data value as MAIN METAL-C-A.

8. To exit from A33 : DM VR 2, press the MENU button once.
9. Select A34 : DM VR 3 of the maintenance mode.

10. METAL C, Sub adjustment

For DNW-A28

Set the data value of A34 : DM VR 3 : SUB METAL-C-A and SUB METAL-C-B to 70.

For DNW-A28P

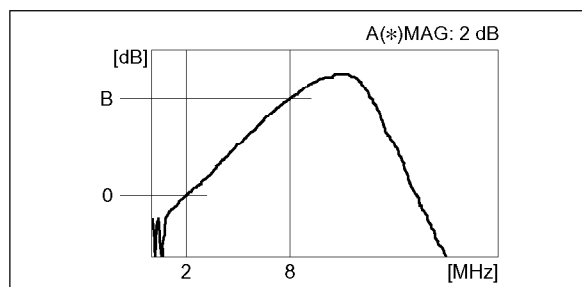
- (1) Connect the oscilloscope's CH-2 to TP306/DM-114 (*N-5).

GND : E303/DM-114 (*N-6)

- (2) Adjust the level difference between 8 MHz and 2 MHz until to satisfy the specification.

Adjustment point : A34 : DM VR 3 : SUB
METAL-C-A

Specification : $B = +9.2 \pm 1.0$ dB



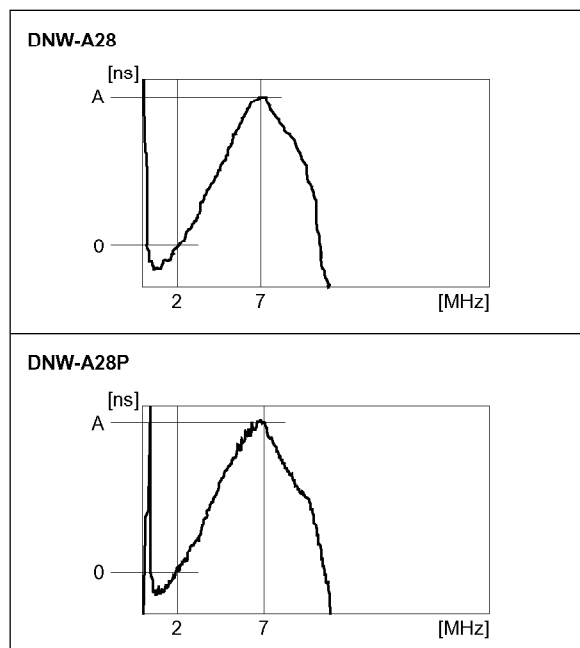
- (3) Set the data value of A34 : DM VR 3 : SUB METAL-C-B to the identical data value as SUB METAL-C-A.

11. Eject the alignment tape.

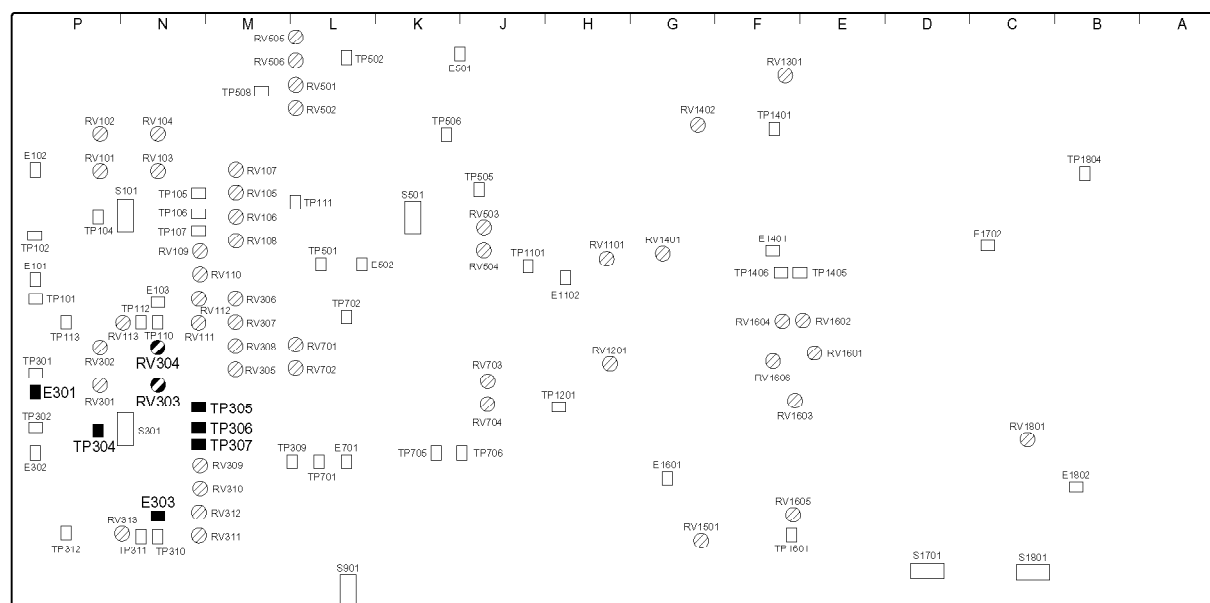
12. To exit from A34 : DM VR 3, press the MENU button once.

3. OXIDE C adjustment

1. Insert the alignment tape CR5-2A or CR5-2A PS.
(STANDBY OFF mode)
(DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
 2. Connect the output of network analyzer to TP304/DM-114 (*P-5).
GND : E301/DM-114 (*P-5)
 3. Connect the oscilloscope's CH-2 to TP305/DM-114 (*N-5).
GND : E303/DM-114 (*N-6)
 4. OXIDE C, Group delay adjustment
Adjust the delay time of 7 MHz against 2 MHz until satisfy the specification.
Adjustment points : ●RV303/DM-114 (*N-5) and
●RV304/DM-114 (*N-4)
- Specification : A = 70 ± 5 ns

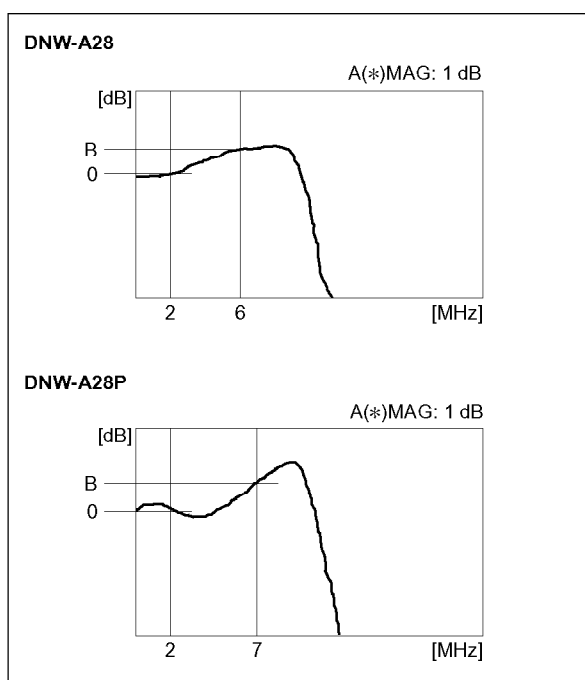


OXIDE C



DM-114 Board (B Side)

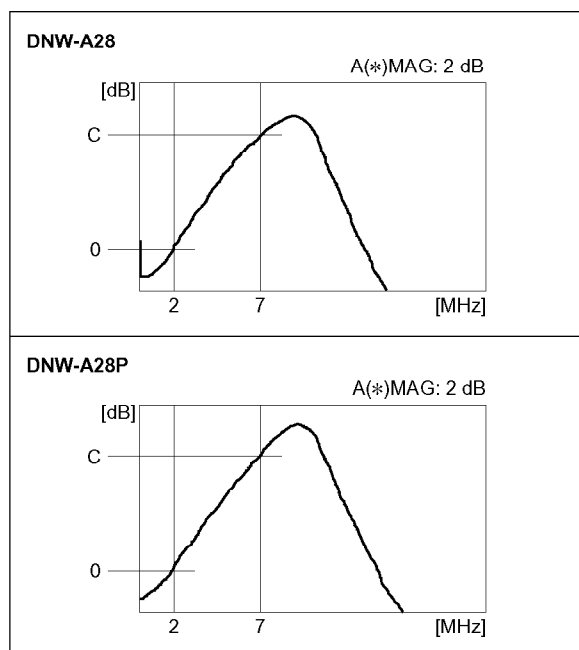
5. Connect the oscilloscope's CH-2 to TP307/DM-114 (*N-6).
GND : E303/DM-114 (*N-6)
6. Select A33 : DM VR 2 of the maintenance mode.
7. OXIDE C, Main adjustment
 - (1) Adjust the level difference between 6 MHz for DNW-A28 (or 7 MHz for DNW-A28P) and 2 MHz until satisfy the specification.
Adjustment point : A33 : DM VR 2 : MAIN
OXIDE-C-A
Specification : $B - +1.2 \pm 0.5 \text{ dB}$



- (2) Set the data value of A33 : DM VR 2 : MAIN
OXIDE-C-B to the identical data value as MAIN
OXIDE-C-A.
8. To exit from A33 : DM VR 2, press the MENU button once.
9. Select A34 : DM VR 3 of the maintenance mode.
10. Connect the oscilloscope's CH-2 to TP306/DM-114 (*N-5).
GND : E303/DM-114 (*N-6)


11. OXIDE C, Sub adjustment

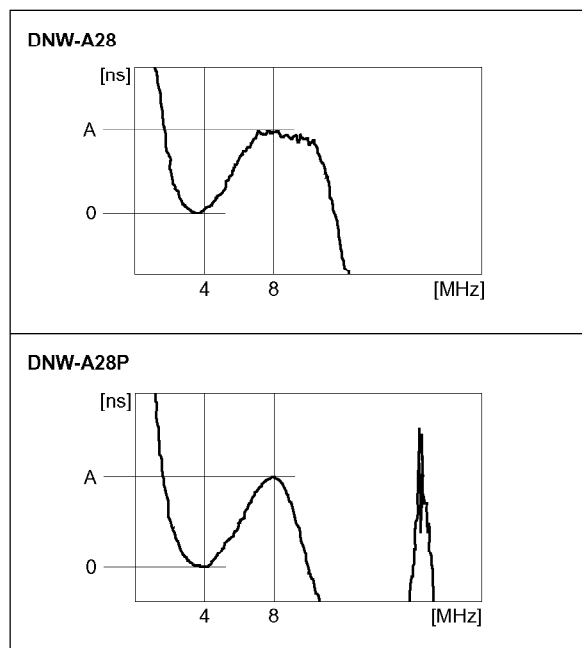
- (1) Adjust the level difference between 7 MHz and 2 MHz until satisfy the specification.
Adjustment point : A34 : DM VR 3 : SUB
OXIDE-C-A
Specification : $C - +11.0 \pm 0.5 \text{ dB}$



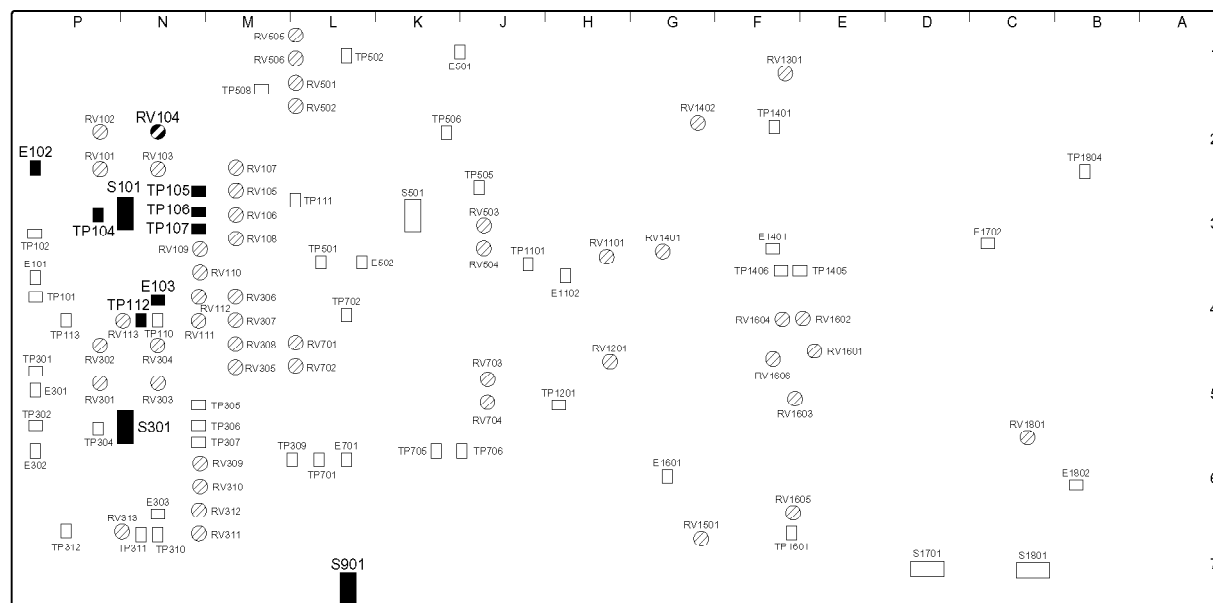
- (2) Set the data value of A34 : DM VR 3 : SUB
OXIDE-C-B to the identical data value as SUB
OXIDE-C-A.
12. To exit from A34 : DM VR 3, press the MENU button once.
13. Disconnect the shorting clip from TP311/DM-114 (*N-7).

4. OXIDE Y adjustment

1. Short-circuit between TP112/DM-114 (*N-4) and E103/DM-114 (*N-4) with a shorting clip.
2. Connect the output of network analyzer to TP104/DM-114 (*P-3).
GND : E102/DM-114 (*P-2)
3. Connect the oscilloscope's CH-2 to TP105/DM-114 (*N-3).
GND : E103/DM-114 (*N-4)
4. OXIDE Y, Group delay adjustment
Adjust the delay time of 8 MHz against 4 MHz until satisfy the specification.
Adjustment point :  RV104/DM-114 (*N-2)
Specification : DNW-A28 : A = 40 ± 5 ns
 DNW-A28P : A = 40 ± 3 ns
5. Select A33 : DM VR 2 of the maintenance mode.
6. Connect the oscilloscope's CH-2 to TP107/DM-114 (*N-3).
GND : E103/DM-114 (*N-4)



OXIDE Y



DM-114 Board (B Side)

7. OXIDE Y, Main adjustment

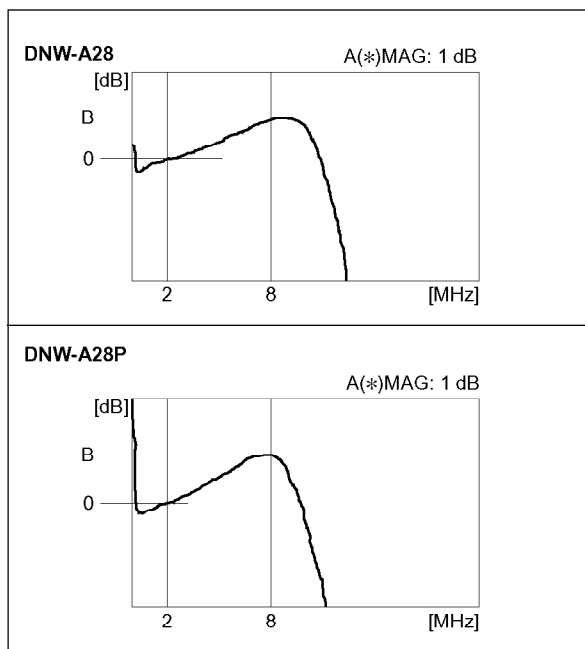
- (1) Adjust the level difference between 8 MHz and 2 MHz until satisfy the specification.

Adjustment point :

A33 : DM VR 2 : MAIN OXIDE-Y-A

Specification : DNW-A28 : B = $+2.0 \pm 0.5$ dB

DNW-A28P : B = $+2.5 \pm 0.5$ dB



- (2) Set the data value of A33 : DM VR 2 : MAIN OXIDE-Y-B to the identical data value as MAIN OXIDE-Y-A.

8. To exit from A33 : DM VR 2, press the MENU button once.
9. Select A34 : DM VR 3 of the maintenance mode.
10. Connect the oscilloscope's CH-2 to TP106/DM-114 (*N-3).
GND : E103/DM-114 (*N-4)

11. OXIDE Y, Sub adjustment

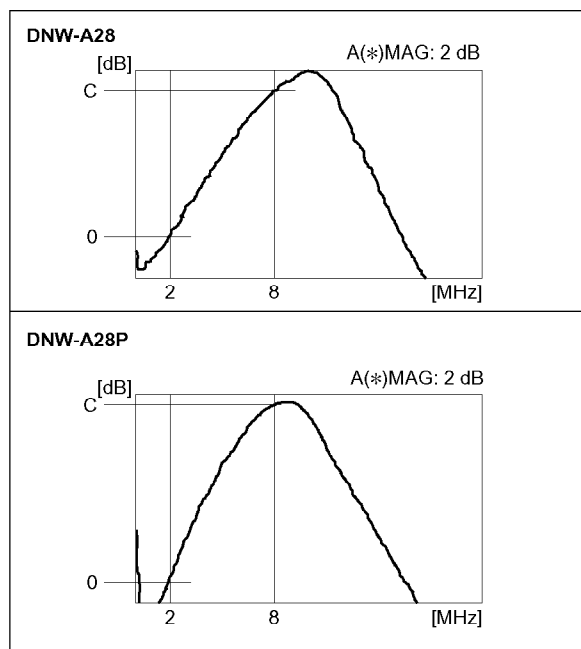
- (1) Adjust the level difference between 8 MHz and 2 MHz until satisfy the specification.

Adjustment point :

A34 : DM VR 3 : SUB OXIDE-Y-A

Specification : DNW-A28 : C = $+14.0 \pm 0.5$ dB

DNW-A28P : C = $+17.0 \pm 0.5$ dB



- (2) Set the data value of A34 : DM VR 3 : SUB OXIDE-Y-B to the identical data value as SUB OXIDE-Y-A.

12. Eject the alignment tape.
13. To exit from A34 : DM VR 3, press the MENU button once.
14. Disconnect the short clip from TP112/DM-114 (*N-4) and E103/DM-114 (*N-4).
15. Reset S101 (*N-3) and S301 (*N-5) of DM-114 board to NOR side.
16. Reset S901-1 and S901-3 (*L-7) of DM-114 board to OFF.

5. Setting of the OMC DC offset

1. Preset and save data of A35 : DM VR4 ; OMC DC referring to Section 9-9-1 Step 3 “Default Setting.”

Note

If data setting has been established in Section 9-9-1 “Preparation”, presetting is not required.

2. Confirm that each items of A35 : DM VR 4 is set to initial data (refer to Section 9-9-1. Preparation)
3. To exit from A35 : DM VR 4, press the MENU button.

6. Saving data

1. Select A3F : NV-RAM CONTROL of the maintenance mode, then execute “SAVE ALL ADJUST DATA.”
2. Check that the message “Save Complete” is displayed on the monitor.
3. To exit from A3F : NV-RAM CONTROL, press the MENU button once.

9-9-4. Cosine Equalizer Adjustment (Provisional)

Notes

- This section explains a provisional adjustment for cosine equalizer without using a network analyzer. If Section 9-9-3. “Cosine Equalizer Adjustment” is completed, this adjustment is not required.
- Perform this provisional adjustment only when the network analyzer is not available for an urgent maintenance. At a later date, be sure to readjust using the network analyzer referring to Section 9-9-3.

1. Confirm that each item of the following maintenance menus has been set to its default referring to Section 9-9-1 Step 3 “Default Setting.”

If not, presetting and saving each are required.

(Refer to Section 3-2-9.)

All items of A33 : DM VR2

All items of A34 : DM VR3

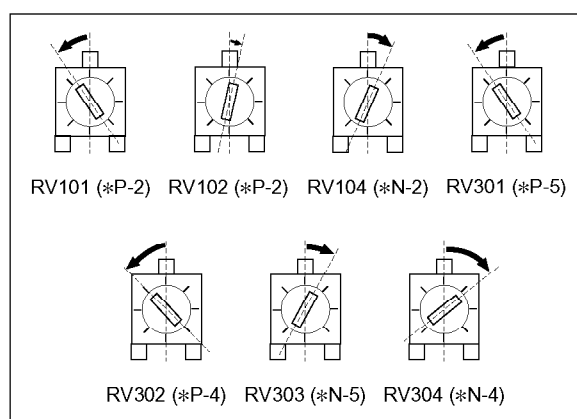
Items of A35 : DM VR4 : OMC DC METAL-Y/C and

A35 : DM VR4 : OMC DC OXIDE-Y/C

Note

If each data setting has been established in Section 9-9-1 “Preparation,” check is not required.

2. Set RVs on the DM-114/114P board to each specified position as shown in the figure.



2. METAL C adjustment

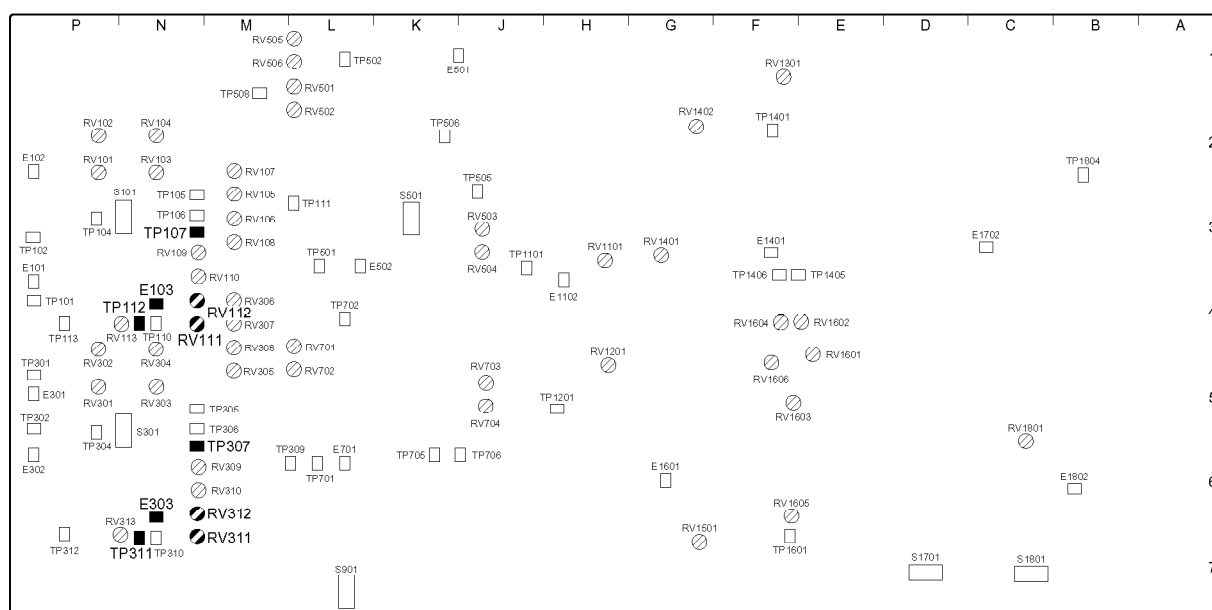
1. Change the connection of the oscilloscope as follows :
CH-1 : TP311/DM-114 (*N-7)
GND : E303/DM-114 (*N-6)
CH-2 : TP307/DM-114 (*N-6)
GND : E303/DM-114 (*N-6)
2. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point : ●RV311/DM-114 (*N-7)
Specification : $B = 400 \pm 40$ mV p-p

A diagram of a rectangular cross-section with a gray fill. A vertical double-headed arrow on the right side indicates the width, labeled with the letter B . The rectangle has small horizontal protrusions on its left and right sides.

3. Eject the alignment tape.

-
- A diagram of a rectangular block with a vertical crack labeled 'A'.

2. Stop the playback of the alignment tape.

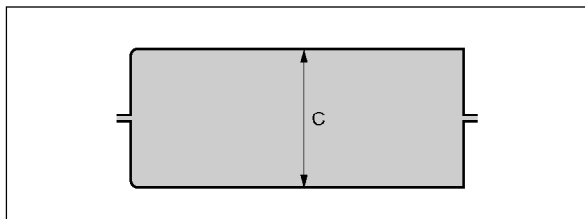


3. OXIDE C adjustment

1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Adjustment point : ●RV312/DM-114 (*N-6)

Specification : $C = 400 \pm 40$ mV p-p



2. Stop the playback of the alignment tape.

4. OXIDE Y adjustment

1. Change the connection of the oscilloscope as follows :

CH-1 : TP112/DM-114 (*N-4)

GND : E103/DM-114 (*N-4)

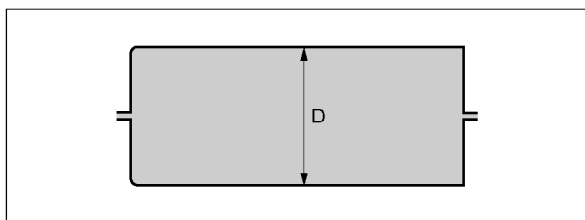
CH-2 : TP107/DM-114 (*N-3)

GND : E103/DM-114 (*N-4)

2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Adjustment point : ●RV112/DM-114 (*N-4)

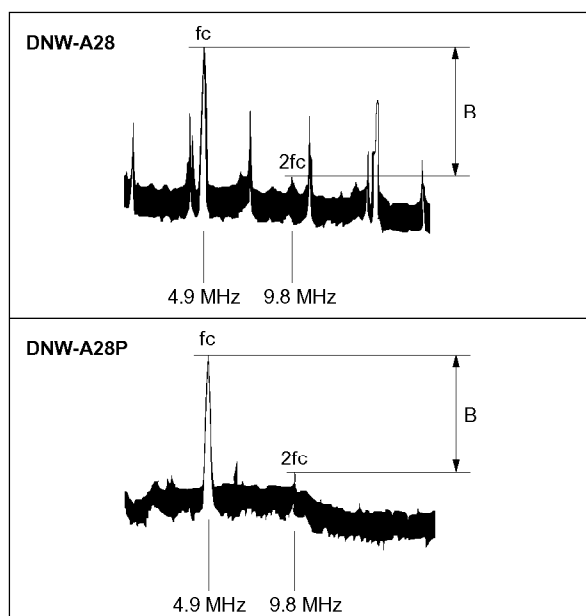
Specification : $D = 400 \pm 40$ mV p-p



3. Stop the playback of the alignment tape.

2. OXIDE C adjustment

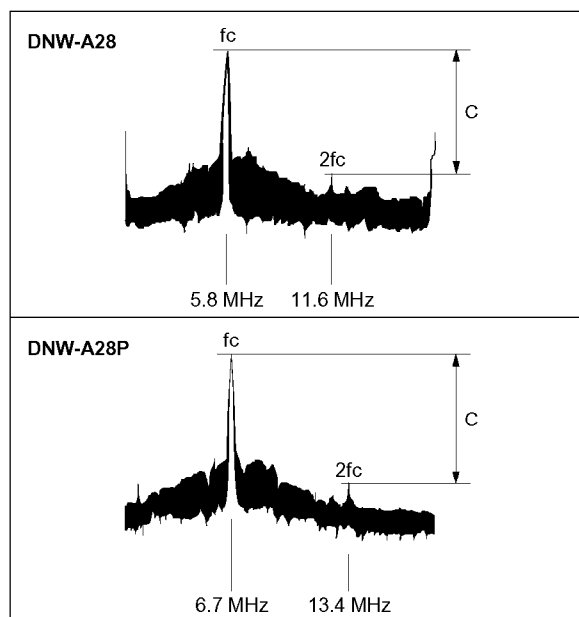
1. Change the connection of the oscilloscope as follows :
 CH-1 : TP311/DM-114 (*N-7)
 GND : E303/DM-114 (*N-6)
 CH-2 : TP309/DM-114 (C-4)
 GND : E701/DM-114 (*L-6)
2. Play back the pulse & bar signal portion (9 : 00 to 11 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
 Adjustment points : ⚙RV307/DM-114 (*M-4) and ⚙RV308/DM-114 (*M-4)
 Specification : $B \geq 35 \text{ dB}$



3. Eject the alignment tape.

3. METAL C adjustment

1. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
 Adjustment points : ⚙RV305/DM-114 (*M-5) and ⚙RV306/DM-114 (*M-4)
 Specification : $C \geq 40 \text{ dB}$



2. Stop the playback of the alignment tape.

4. METAL Y adjustment

1. Change the connection of the oscilloscope as follows :

CH-1 : TP112/DM-114 (*N-4)

GND : E103/DM-114 (*N-4)

CH-2 : TP111/DM-114 (*L-3)

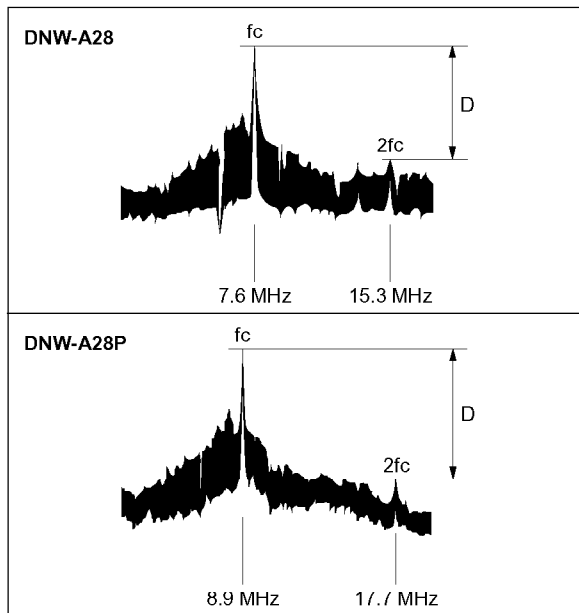
GND : E502/DM-114 (*L-3)

2. Play back the flat filed signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Adjustment points : \odot RV105/DM-114 (*M-3) and


\odot RV106/DM-114 (*M-3)

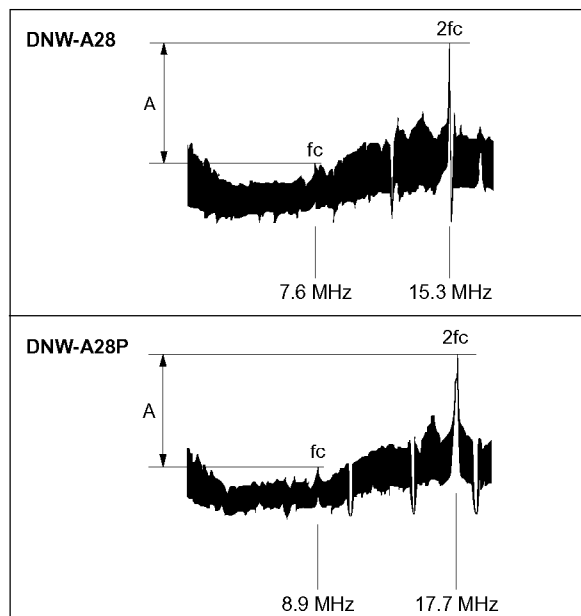
Specification : $D \geq 40$ dB



3. Stop the playback of the alignment tape.

1. Y adjustment (using the spectrum analyzer)

- Connect and set the oscilloscope as follows :
CH-1 : TP112/DM-114 (*N-4), DC 1 V/DIV
GND : E103/DM-114 (*N-4)
CH-2 : TP502/DM-114 (*L-1), AC 1 V/DIV, 5 ms/DIV
GND : E501/DM-114 (*J-1)
Trigger : CH-1, negative (–) slope
- Play back the flat filed signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point :  RV502/DM-114 (*L-2)
Specification : Maximize the level difference A.
(Minimize the fc.)



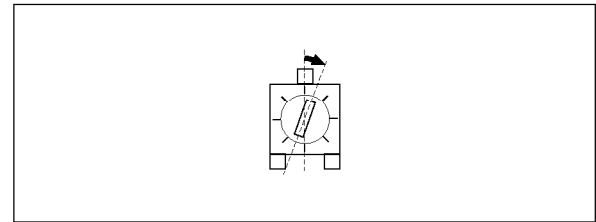
- Stop the playback of the alignment tape.

2. Provisional Y adjustment (without using the spectrum analyzer)


Note

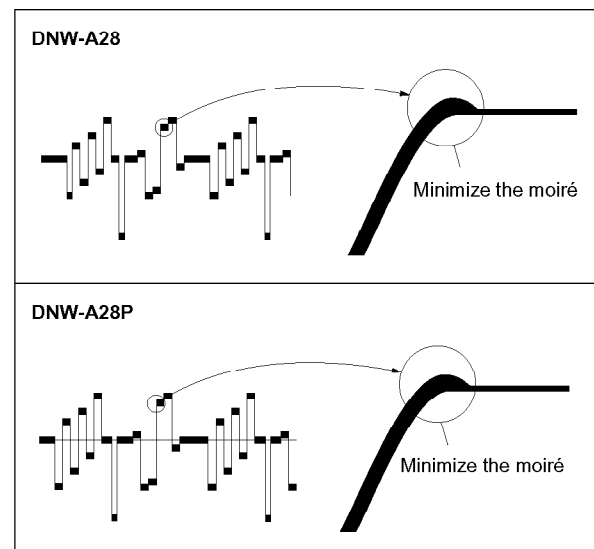
This section explains the provisional adjustment for Y signal without using a spectrum analyzer. If the above-mentioned Y adjustment is completed, this adjustment is not required.

Set RV502/DM-114 (*L-2) as shown below.



3. C adjustment

- Connect and set the oscilloscope as follows :
CH-2 : TP1201/DM-114 (*H-5), AC 200 mV/DIV
GND : E1102/DM-114 (*H-4)
TIME : 10 μ s/DIV
Trigger : CII-2
- Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point :  RV702/DM-114 (*L-5)
Specification : Minimize the moiré at specified part.



- Stop the playback of the alignment tape.

9-9-9. Non-linear Output Level Adjustment

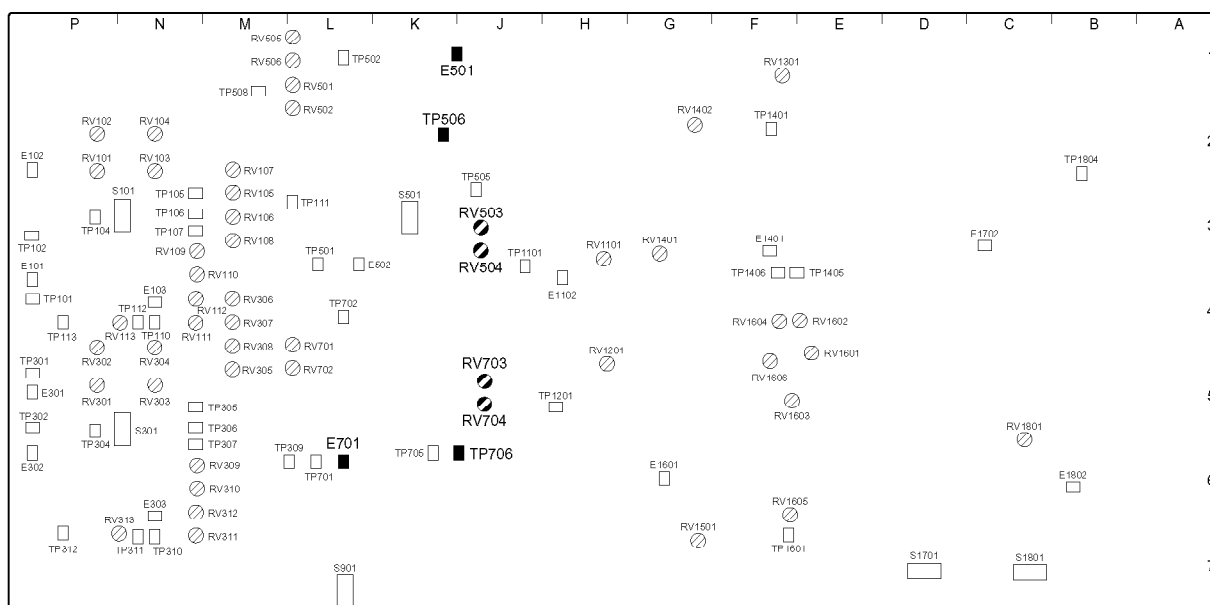
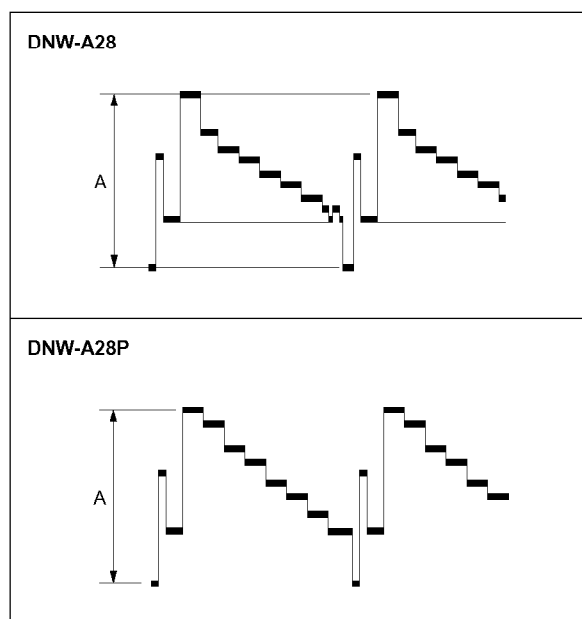
Measuring equipment : Oscilloscope

Preparation/Setting

1. Connect and set the oscilloscope as follows :
 CH-2 : TP506/DM-114 (*K-2), AC 200 mV/DIV
 GND : E501/DM-114 (*J-1)
 TIME : 10 μ s/DIV
 Trigger : CH-2

1. METAL Y adjustment

1. Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
 Adjustment point : \odot RV503/DM-114 (*J-3)
 Specification : $A = 1.00 \begin{smallmatrix} +0.01 \\ -0.05 \end{smallmatrix}$ Vp-p
2. Stop the playback of the alignment tape.



DM-114 Board (B Side)

2. C adjustment

1. Change the connection of the oscilloscope as follows :
CH-2 : TP706/DM-114 (*J-6)
GND : E701/DM-114 (*L-6)

2. • For DNW-A28

Play back the 75 % color-bar signal portion of the alignment tape CR5-1B (14 : 00 to 17 : 00), and perform the adjustment.

Adjustment point : ●RV704/DM-114 (*J-5)

Specification : $C = 700 \pm 10 \text{ mV}$

- For DNW-A28P

- (1) METAL C adjustment

Play back the 100 % color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B PS, and perform the adjustment.

Adjustment point : ●RV703/DM-114 (*J-5)

Specification : $B = 933 \pm 10 \text{ mV}$

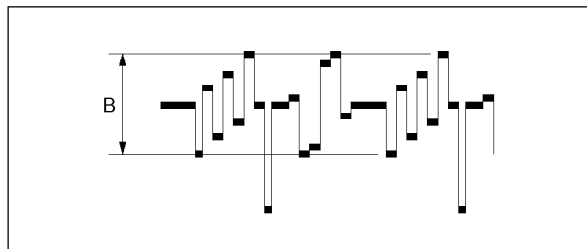
- (2) Eject the alignment tape CR5-1B PS.

- (3) OXIDE C adjustment

Play back the 75 % color-bar signal portion of the alignment tape CR5-2A PS (0 : 00 to 3 : 00), and perform the adjustment.

Adjustment point : ●RV704/DM-114 (*J-5)

Specification : $C = 700 \pm 10 \text{ mV}$



3. OXIDE Y adjustment

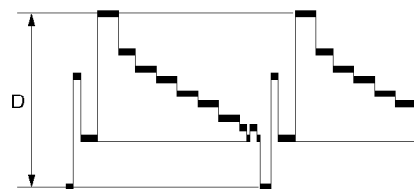
1. Change the connection of the oscilloscope as follows :
CH-2 : TP506/DM-114 (*K-2)
GND : E501/DM-114 (*J-1)

2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

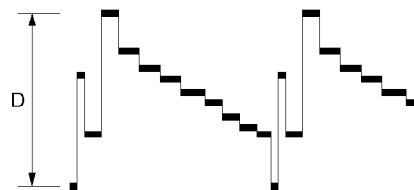
Adjustment point : ●RV504/DM-114 (*J-3)

Specification : $D = 1.00 \pm 0.01 \text{ Vp-p}$

DNW-A28



DNW-A28P



3. Eject the alignment tape.

9-9-10. PB Frequency Response Adjustment

Measuring equipment : Digital component waveform monitor

Preparation/Setting

1. Connect the digital component waveform monitor to the SDI OUT connector.
2. Startup the maintenance mode.
(Refer to Section 9-1-1.)
3. Select A32 : DM VR 1 of the maintenance mode.

1. METAL Y adjustment

1. Observe the Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (8 : 00 to 11 : 00) of the alignment tape CR5-1B or CR5-1B PS, and adjust so that the level at 4.1 MHz (or 5 MHz for PAL) portion is within specification. And confirm that levels at other frequencies are within specifications.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. So adjust/confirm the signal level at each channel.

Adjustment points :

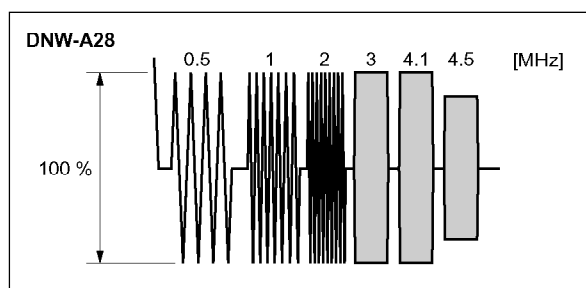
A channel : A32 : DM VR 1 : EQ1 METAL-Y-A

B channel : A32 : DM VR 1 : EQ1 METAL-Y-B

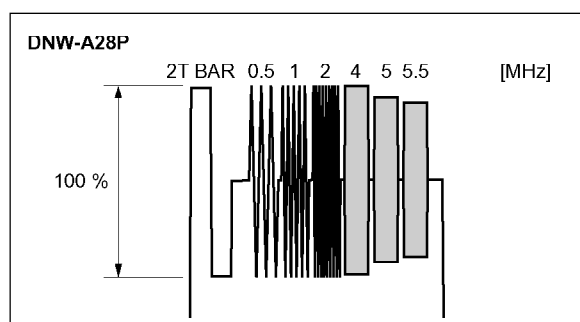
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
0.5 MHz	Reference : 100 % {0 dB}
4.1 MHz	Adjust : 94 (100 to 90) % { -0.5 ± 0.3 dB}
1 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
2 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
3 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
4.5 MHz	Check : 80 (106 to 63) % { -2.0 ± 2.5 dB}



Frequency	Specifications for DNW-A28P
2T BAR	Reference : 100 % {0 dB}
5 MHz	Adjust : 91 (96 to 87) % { -0.8 ± 0.4 dB}
0.5 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
1 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
2 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
4 MHz	Check : 100 (106 to 63) % { 0 ± 4.5 dB}
5.5 MHz	Check : 84 (106 to 63) % { -1.5 ± 2.0 dB}



3. Connect the video monitor to VIDEO OUTPUT 1 connector.
4. Play back the multiburst signal portion (8 : 00 to 11 : 00) of the alignment tape CR5-1B or CR5-1B PS, and check that the playback picture on the video monitor has no flicker.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
5. Reconnect the video monitor to VIDEO OUTPUT 2 (SUPER) connector.

2. METAL C adjustment

1. Observe the R-Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (8 : 00 to 11 : 00) of the alignment tape CR5-1B or CR5-1B PS, and adjust so that the level at 1 MHz (or 1.5 MHz for PAL) portion is within specification. And confirm that levels at other frequencies are within specifications. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. So adjust/confirm the signal level at each channel.

Adjustment points :

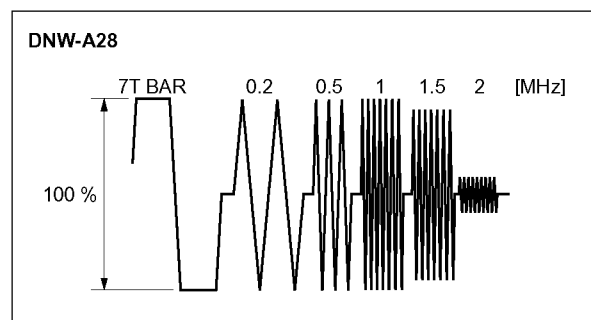
A channel : A32 : DM VR 1 : EQ1 METAL-C-A

B channel : A32 : DM VR 1 : EQ1 METAL-C-B

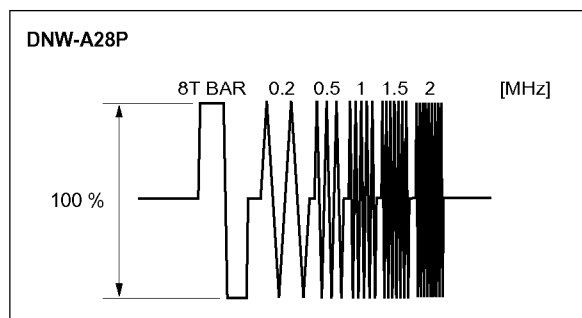
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
7T BAR	Reference : 100 % {0 dB}
1 MHz	Adjust : 94 (100 to 89) % { -0.5 ± 0.5 dB}
0.2 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
0.5 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
1.5 MHz	Check : 80 (106 to 71) % { -2.0 ± 2.5 dB}



Frequency	Specifications for DNW-A28P
8T BAR	Reference : 100 % {0 dB}
1.5 MHz	Adjust : 93 (102 to 85) % { -0.6 ± 0.8 dB}
0.2 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
0.5 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
1 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
2 MHz	Check : 80 (106 to 71) % { -2.0 ± 2.5 dB}



3. Observe the B-Y output signal on the component waveform monitor. Confirm that the B-Y signal levels at every frequencies are within specifications shown above. If the B-Y signal is out of specifications, perform fine adjustment for R-Y until the specifications for both B-Y and R-Y signals are satisfied.
4. Eject the alignment tape.

3. OXIDE Y adjustment

1. Observe the Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape CR5-2A or CR5-2A PS, and adjust so that the level at 2 MHz (or 3 MHz for PAL) portion is within specification. And confirm that levels at other frequencies are within specifications. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. Therefore, adjust and check the signal level at each channel.

Adjustment points :

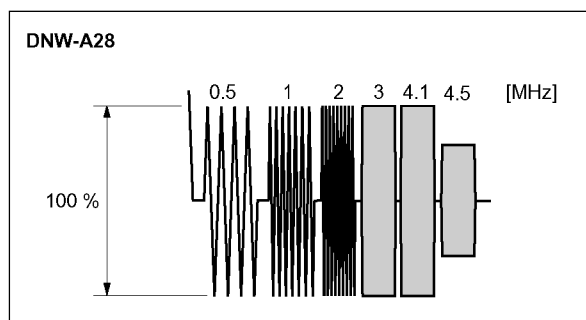
A channel : A32 : DM VR 1 : EQ1 OXIDE-Y-A

B channel : A32 : DM VR 1 : EQ1 OXIDE-Y-B

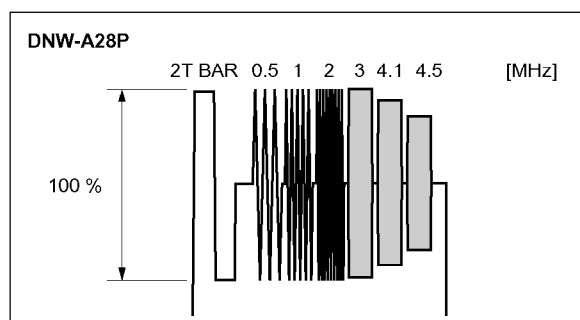
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
0.5 MHz	Reference : 100 % {0 dB}
2 MHz	Adjust : 100 (104 to 95) % {0 ± 0.3 dB}
1 MHz	Check : 100 (106 to 50) % {0 ± 0.5 dB}
3 MHz	Check : 89 (106 to 50) % {-1.0 ± 0.5 dB}
4.1 MHz	Check : 71 (106 to 50) % {-3.0 ± 0.5 dB}



Frequency	Specifications for DNW-A28P
2T BAR	Reference : 100 % {0 dB}
3 MHz	Adjust : 89 (100 to 79) % {-1.0 ± 1.0 dB}
0.5 MHz	Check : 100 (106 to 50) % {0 ± 0.5 dB}
1 MHz	Check : 100 (106 to 50) % {0 ± 0.5 dB}
2 MHz	Check : 100 (106 to 50) % {0 ± 0.5 dB}
4.1 MHz	Check : 71 (106 to 50) % {-3.0 ± 0.5 dB}



3. Play back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape CR5-2A or CR5-2A PS, and confirm that the level difference between the A and B channel signals is hardly noticeable at high frequency portion (4.5 MHz).

Note

If the level difference is noticeable at 4.5 MHz, adjustment using menu A34 : DM VR3 : SUB OXIDE-A or -B is required. Following steps ① to ⑦, adjust the channel with the lower level while playing back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape.

- ① To exit from A32 : DM VR 1, press the MENU button once.
- ② Select A34 : DM VR 3 of the maintenance mode.
- ③ Change the data value of SUB OXIDE-Y-A (A channel side), and judge which signal is lower in level.
- ④ If the B channel signal is lower, return the data value of SUB OXIDE-Y-A to the former data, then adjust the SUB OXIDE-Y-B so as to increase the value until the level of B channel signal is almost equal to the level of A channel signal.
If the A channel signal is lower, adjust the SUB OXIDE-Y-A so as to increase the value until the level of A channel signal is almost equal to level of B channel signal.
- ⑤ To exit from A34 : DM VR 3, press the MENU button once.
- ⑥ Select A32 : DM VR 1.
- ⑦ To enable the tape operation, press the SET button once.

4. OXIDE C adjustment

1. Observe the R-Y output signal on the component waveform monitor.
2. Play back the multiburst signal portion (3 : 00 to 6 : 00) of the alignment tape CR5-2A or CR5-2A PS, and adjust so that the level at 1 MHz portion is within specification. Make sure that levels at other frequencies are within specifications. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Note

The overlapping waveform of A channel and B channel signals is monitored on the component waveform monitor. Therefore, adjust and check the signal level at each channel.

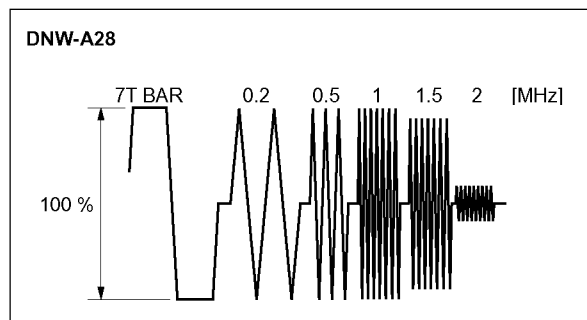
Adjustment points :

A channel : A32 : DM VR 1 : EQ1 OXIDE-C-A
B channel : A32 : DM VR 1 : EQ1 OXIDE-C-B

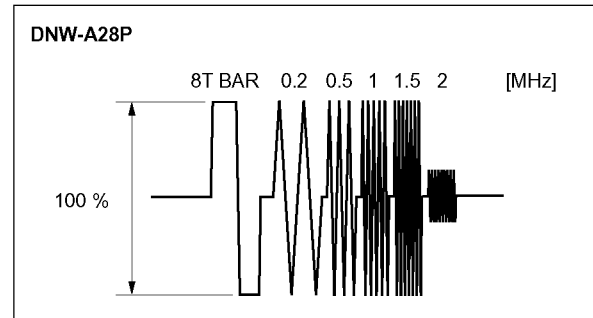
Specifications (A and B channels) :

See the table below.

Frequency	Specifications for DNW-A28
7T BAR	Reference : 100 % {0 dB}
1 MHz	Adjust : 94 (100 to 89) % { -0.5 ± 0.5 dB}
0.2 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
0.5 MHz	Check : 95 (106 to 71) % { -0.4 ± 0.9 dB}
1.5 MHz	Check : 80 (106 to 71) % { -2.0 ± 1.5 dB}



Frequency	Specifications for DNW-A28P
8T BAR	Reference : 100 % {0 dB}
1 MHz	Adjust : 94 (102 to 86) % { -0.5 ± 0.8 dB}
0.2 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
0.5 MHz	Check : 100 (106 to 71) % { 0 ± 3.5 dB}
1.5 MHz	Check : 84 (106 to 71) % { -1.5 ± 1.5 dB}



3. Observe the B-Y output signal on the component waveform monitor. Confirm the B-Y signal levels at every frequencies are within specifications shown above. If the B-Y signal is out of specifications, perform fine adjustment for R-Y until the specifications for both B-Y and R-Y signals are satisfied.
4. Eject the alignment tape.
5. To exit from A32 : DM VR 1, press the MENU button once.

5. Saving data

1. Select A3F : NV-RAM CONTROL of the maintenance mode, and execute "SAVE ALL ADJUST DATA."
2. Check that the message "Save Complete" is displayed on the monitor.
3. To exit from A3F : NV-RAM CONTROL, press the MENU button once.
4. To exit the maintenance mode, press the MENU button three times.

9-9-11. Dropout Compensation Equalizer Adjustment

Measuring equipment : Oscilloscope

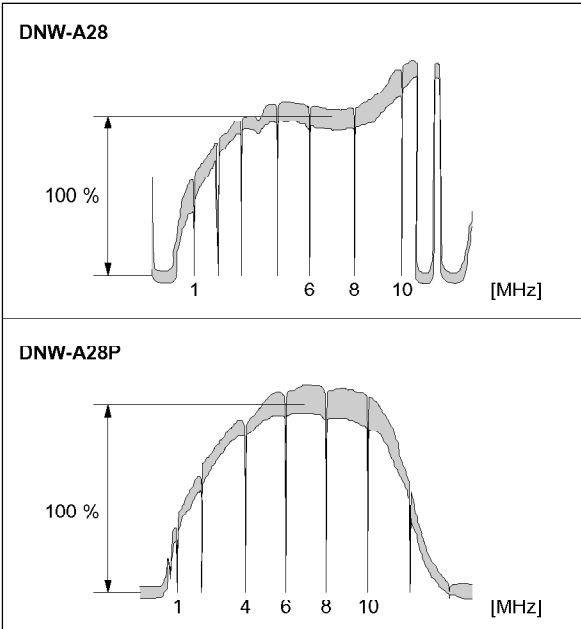
Preparation/Setting

1. Connect and set the oscilloscope as follows :
CH-1 : TP112/DM-114 (*N-4), DC 1 V/DIV
GND : E103/DM-114 (*N-4)
CH-2 : TP113/DM-114 (*P-4), DC >200 mV/DIV,
2 ms/DIV
GND : E101/DM-114 (*P-4)
Trigger : CH-1, — slope

1. METAL Y adjustment

1. Play back the RF sweep signal portion (0 : 00 to 2 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point : ●RV109/DM-114 (*N-3)
Specifications : Refer to table below.

Frequency	Specifications for DNW-A28	Specifications for DNW-A28P
6 MHz	Reference : 100 % {0 dB}	Reference : 100 % {0 dB}
8 MHz	100 ± 20 % {0 ± 2.0 dB}	100 ± 20 % {0 ± 2.0 dB}
10 MHz	120 ± 50 % {2.0 ± 5.0 dB}	110 ± 40 % {1.0 ± 4.0 dB}



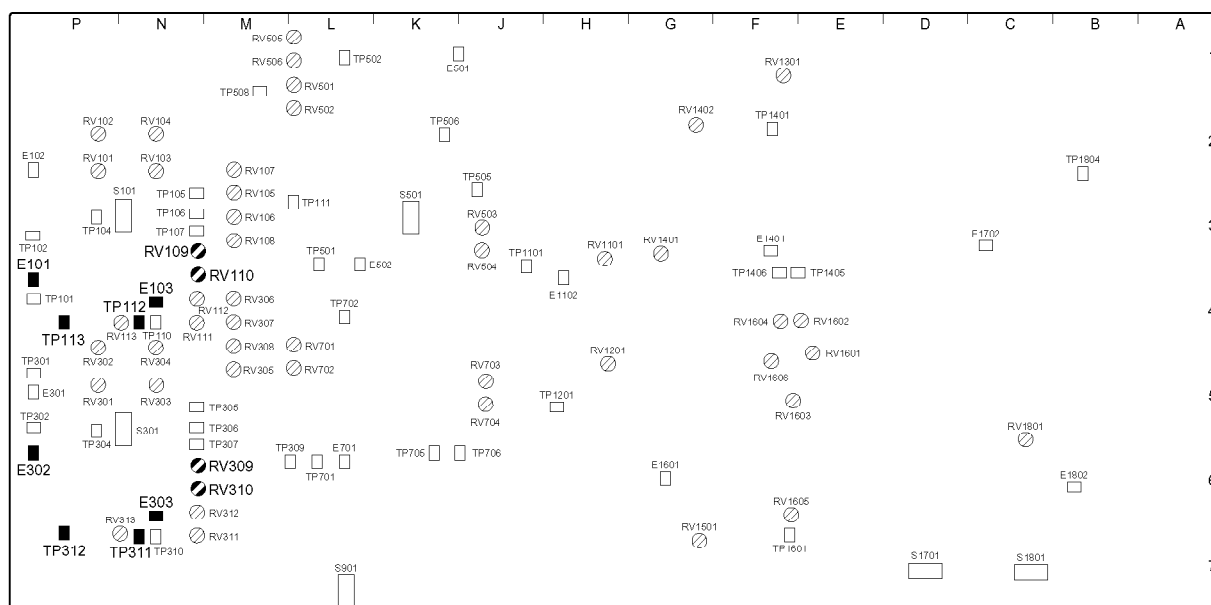
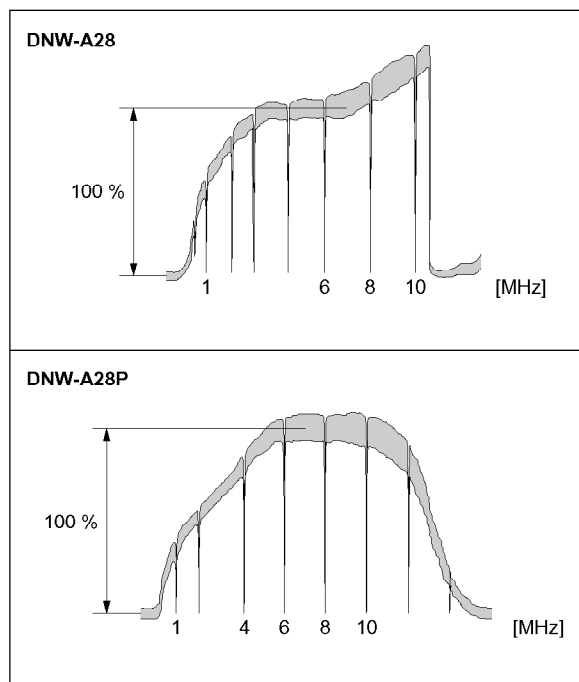
2. Stop the playback of the alignment tape.

2. METAL C adjustment

1. Change the connection of the oscilloscope as follows :
CH-1 : TP311/DM-114 (*N-7)
GND : E303/DM-114 (*N-6)
CH-2 : TP312/DM-114 (*P-7)
GND : E302/DM-114 (*P-6)
2. Play back the RF sweep signal portion (0 : 00 to 2 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point : ●RV309/DM-114 (*N-6)
Specifications : See the table below.

Frequency	Specifications
6 MHz	Reference : 100 % {0 dB}
8 MHz	100 ±20 % {0 ±2.0 dB}
10 MHz	110 ±20 % {1.0 ±2.0 dB}

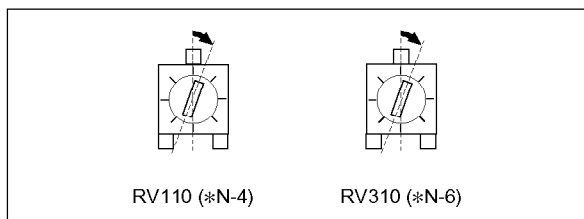
3. Stop the playback of the alignment tape.



DM-114 Board (B Side)

3. OXIDE Y/C adjustment

1. Set RVs on the DM-114/114P board to each specified position as shown below.



9-9-12. DM RF Output Level adjustment

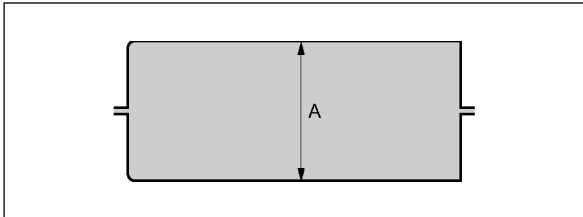
Measuring equipment : Oscilloscope
(20 MHz BW LIMIT : ON)

Preparation/Setting

1. Connect and set the oscilloscope as follows :
CH-1 : TP112/DM-114 (*N-4), DC 1 V/DIV
GND : E103/DM-114 (*N-4)
CH-2 : TP107/DM-114 (*N-3), AC 100 mV/DIV
GND : E103/DM-114 (*N-4)
TIME : 2 ms/DIV
Trigger : CH-1, negative (–) slope

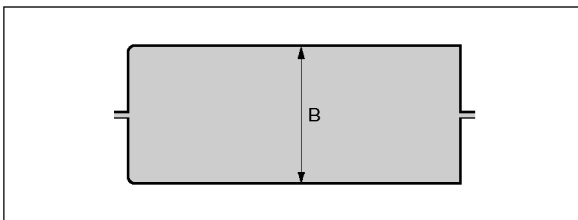
1. METAL Y adjustment

1. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point : ●RV111/DM-114 (*N-4)
Specification : A = 400 ± 40 mV p-p



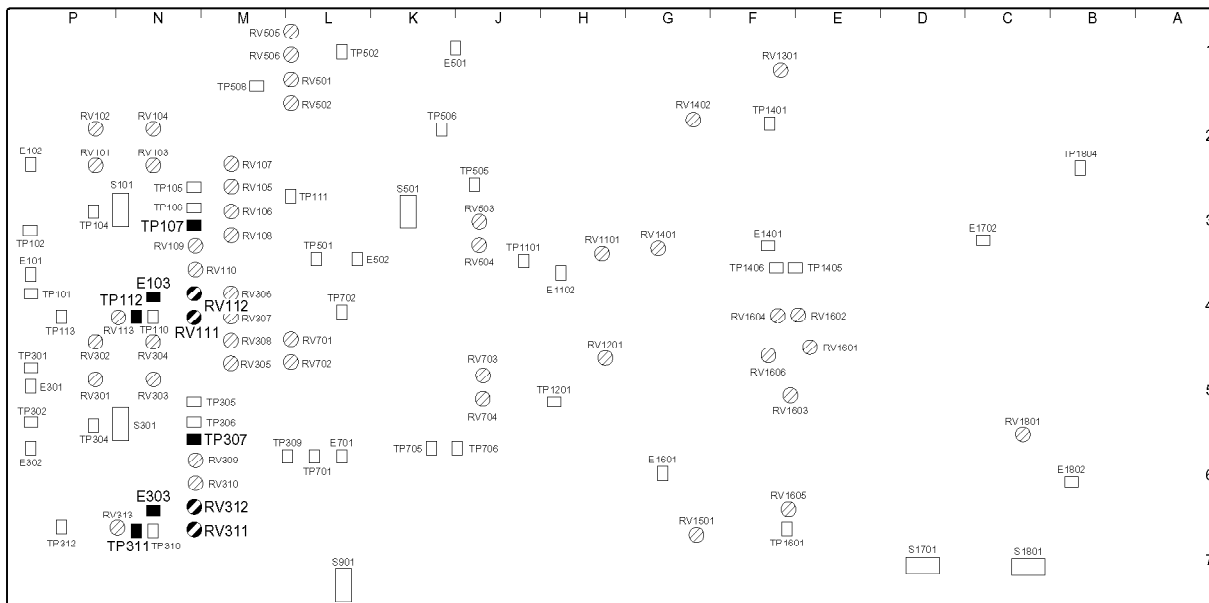
2. METAL C adjustment

1. Change the connection of the oscilloscope as follows :
CH-1 : TP311/DM-114 (*N-7)
GND : E303/DM-114 (*N-6)
CH-2 : TP307/DM-114 (*N-6)
GND : E303/DM-114 (*N-6)
2. Play back the flat field signal portion (24 : 00 to 26 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
Adjustment point : ●RV311/DM-114 (*N-7)
Specification : B = 400 ± 40 mV p-p



3. Eject the alignment tape.

2. Stop the playback of the alignment tape.

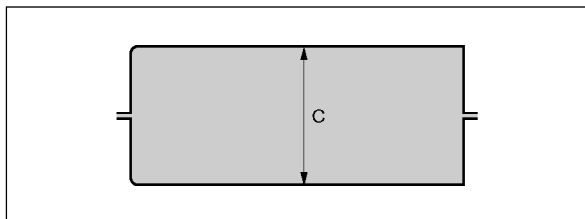


3. OXIDE C adjustment

1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Adjustment point : ●RV312/DM-114 (*N-6)

Specification : $C = 400 \pm 40$ mV p-p



2. Stop the playback of the alignment tape.

4. OXIDE Y adjustment

1. Change the connection of the oscilloscope as follows :

CH-1 : TP112/DM-114 (*N-4)

GND : E103/DM-114 (*N-4)

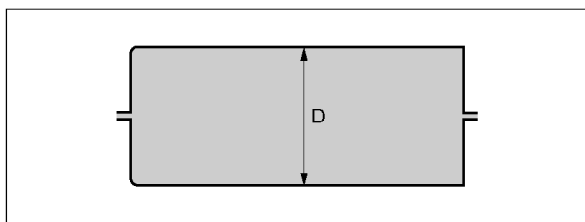
CH-2 : TP107/DM-114 (*N-3)

GND : E103/DM-114 (*N-4)

2. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and perform the adjustment. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Adjustment point : ●RV112/DM-114 (*N-4)

Specification : $D = 400 \pm 40$ mV p-p



3. Eject the alignment tape.

9-9-14. Search Picture Adjustment

It is not necessary to perform this adjustment when the board is replaced.

Measuring equipment : Digital voltmeter and Oscilloscope

Preparation/Setting

1. Extend the DM-114/114P board.
(Refer to Section 1-7.)

1. Voltage measurement

1. Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS, and measure the DC voltage level at the following test points using the digital voltmeter.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Test point	Measurement value (fill in)
TP508/DM-114 (*M-1)	
TP503/DM-114 (K-2)	
TP703/DM-114 (L-6)	

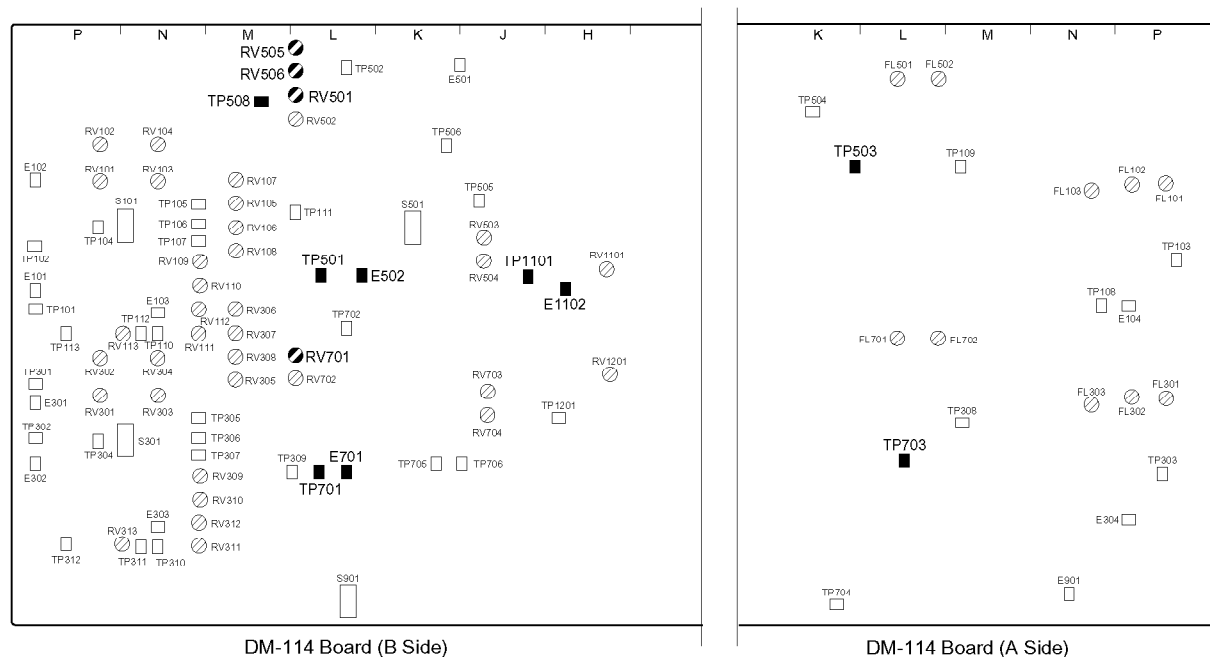
2. Voltage adjustment

1. Turn RV506/DM-114 (*L-1) fully clockwise (○).
2. Short-circuit between TP501/DM-114 (*L-3) and E502/DM-114 (*L-3) with a shorting clip.
3. Short-circuit between TP701/DM-114 (*L-6) and E701/DM-114 (*L-6) with a shorting clip.

4. Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS, and adjust the DC voltage level at the following test points so as to be equal to the voltage measured in step 1. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Test point	Adjustment point	Remarks
TP508/DM-114 (*M-1)	RV505/DM-114 (*L-1)	SPD OFFSET
TP503/DM-114 (K-2)	RV501/DM-114 (*L-1)	Y DEEM
TP703/DM-114 (L-6)	RV701/DM-114 (*L-4)	C DEEM

5. Disconnect the shorting clip from TP501/DM-114 (*L-3) and E502/DM-114 (*L-3).
6. Disconnect the shorting clip from TP701/DM-114 (*L-6) and E701/DM-114 (*L-6).
7. Connect and set the oscilloscope as follows :
CH-2 : TP1101/DM-114 (*J-3), DC 1 V/DIV
GND : E1102/DM-114 (*H-4)
Time : 10 μs/DIV

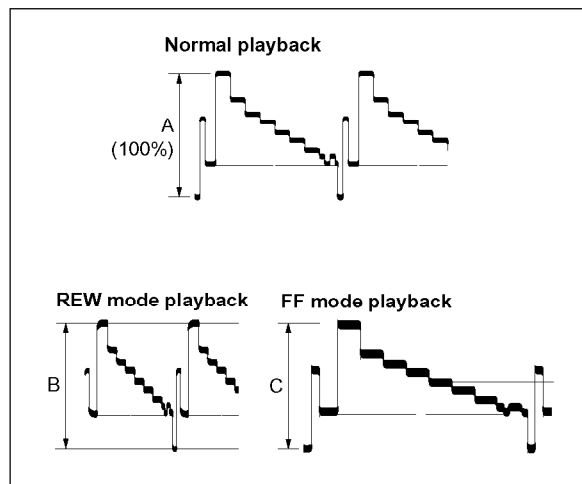


3. Gain adjustment

1. Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS in the following modes, and perform the adjustment and check.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

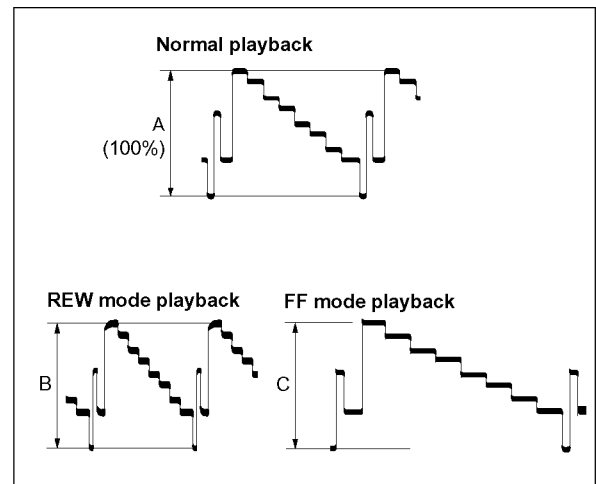
For DNW-A28

Playback mode	Specification	Adjustment point
Normal	Reference A : 100 % (0 dB)	—
REW	B = 105 ± 5 % (0.4 \pm 0.4 dB)	RV506/DM-114 (*L-1)
FF	C = 100 ± 10 % (0 \pm 1.0 dB)	Check only



For DNW-A28P

Playback mode	Specification	Adjustment point
Normal	Reference A : 100 % (0 dB)	—
REW	B = 105 ± 5 % (0.4 \pm 0.4 dB)	RV506/DM-114 (*L-1)
FF	C = 100 ± 10 % (0 \pm 1.0 dB)	Check only



2. Stop the playback of the alignment tape.
3. Return the DM-114/114P board to its normal position.

9-9-15. Guard Band Width Adjustment

Measuring equipment : Video monitor

Preparation/Setting

1. Preset and save data of A35 : DM VR 4;GUARD BAND referring to Section 9-9-1 Step 3 "Default Setting."

Note

If data setting has been established in Section 9-9-1 "Preparation," presetting is not required.

2. Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS in the JOG mode. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
3. Turn the JOG dial until guard band appears at the center of the monitor screen.
(See Figure 1 on the next page.)

1. METAL guard band width adjustment

- (1) Confirm that the guard band widths are met the following specifications. If both width are within the specifications, proceed to step 2 "Metal C confirmation." If not, perform the following steps (2) and (3).
 Specification 1 : Guard band width is below a third of monitor screen's height.
 Specification 2 : Guard band width for C is wider than for Y.

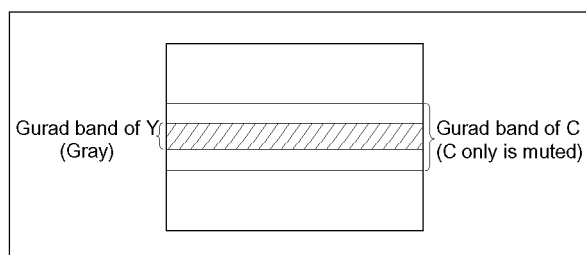


Figure 1. Guard Band

2. METAL C confirmation

- (1) Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS in the VARIABLE +1 time speed mode (or the search +1 time speed), and confirm that the following specification is satisfied. If satisfied, go to step (3). If not, perform step (2).
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
 Specification 3 : The picture (color-bar) on the video monitor is colored.
 (The C signal is not fully muted.)
- (2) If the specification 3 is not satisfied :
 Subtract 1 from the data value of GUARD BAND METAL-C, confirm that the specifications in step (1) is satisfied again.
- (3) Eject the alignment tape CR5-1B/CR5-1B PS.

- (2) If the specification 1 is not met:
 Subtract 1 from each data value of GUARD BAND METAL-Y and GUARD BAND METAL-C, then confirm that the specifications of step (1) are met.
- (3) If the specification 2 is not met:
 Add 1 to the data value of GUARD BAND METAL-C, then confirm that the specifications of step (1) are met.

3. OXIDE, Guard band width confirmation

- (1) Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS in the JOG mode. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
- (2) Turn the JOG dial until guard band appears at the center of the video monitor screen.
(See to Figure 2.)
- (3) Make sure that the guard band width satisfies the following specifications. If both are satisfied, go to step 4. OXIDE C confirmation. If not, perform step (4) or (5).

Specification 1 : Guard band width is below a half of monitor screen's height.

Specification 2 : Guard band width for C is wider than for Y.

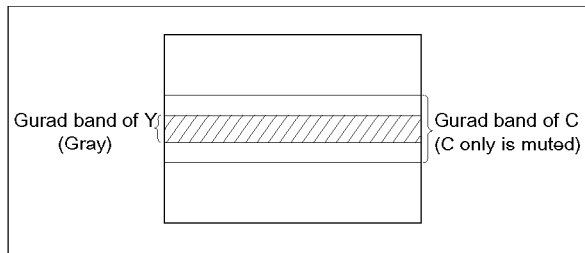


Figure 2. Guard Band

- (4) If the specification 1 is not satisfied :
Subtract 1 from each data value of GUARD BAND OXIDE-Y and GUARD BAND OXIDE-C, then confirm that the specifications in step (3) are satisfied again.
- (5) If the specification 2 is not satisfied :
Add 1 to the data value of GUARD BAND OXIDE-C, then confirm that the specifications in step (3) are satisfied again.

4. OXIDE C confirmation

- (1) Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS in the VARIABLE +1 time speed mode (or the search +1 time speed), and confirm that the following specification is satisfied. If satisfied, go to step (3). If not, perform step (2).
(DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
Specification 3 : The picture (color-bar) on the video monitor is colored.
(The C signal is not fully muted.)
- (2) If the specification 3 is not satisfied :
Subtract 1 from the data value of GUARD BAND OXIDE-C, then confirm that the specification in step (1) is satisfied.
- (3) Eject the alignment tape CR5-2A/CR5-2A PS.
- (4) To exit from A35 : DM VR 4, press the MENU button once.

5. Saving data

- (1) Select A3F : NV-RAM CONTROL of the maintenance mode, then execute "SAVE ALL ADJUST DATA."
- (2) Check that the message "Save Complete" is displayed on the video monitor.
- (3) To exit from A3F : NV-RAM CONTROL, press the MENU button once.
- (4) To exit from the maintenance mode, press the MENU button three times.

9-9-16. SDI Output Level Adjustment

Measuring equipment : Digital component waveform monitor

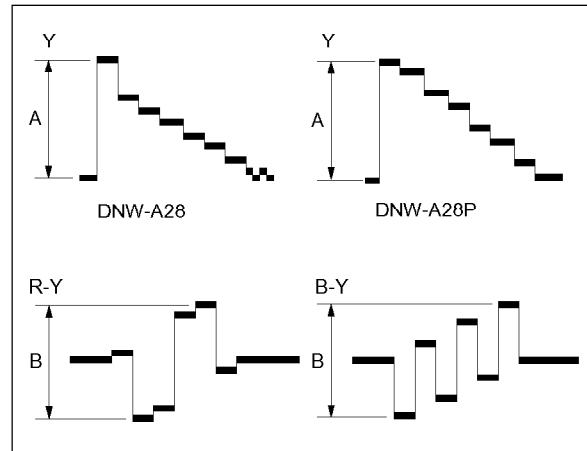
Preparation/Setting

1. Connect the digital component waveform monitor to SDI OUTPUT connector.

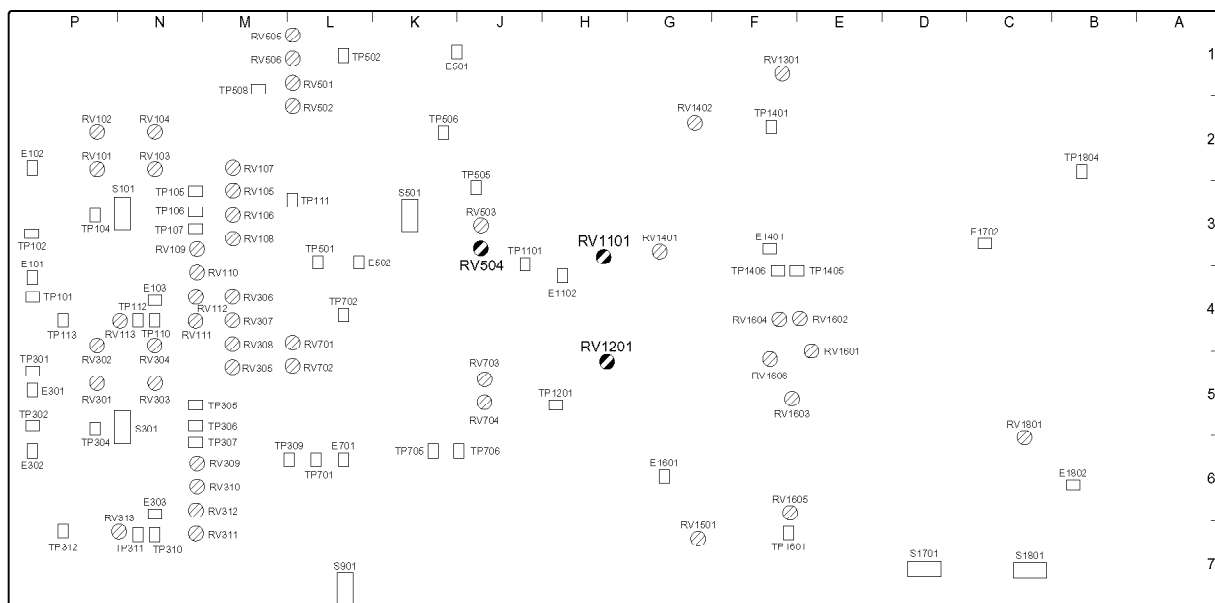
1. METAL Y/C adjustment

1. Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS, and perform the adjustment for each component signal level.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Observation component	Specifications	Adjustment point
Y	$A = 700 \pm 7 \text{ mV}$	RV1101/DM-114 (*H-3)
R-Y/B-Y	$B = 486 \pm 5 \text{ mV p-p}$ (DNW-A28) $B - 700 \pm 7 \text{ mV p-p}$ (DNW-A28P)	RV1201/DM-114 (*H-5)



2. Eject the alignment tape.



DM-114 Board (B Side)

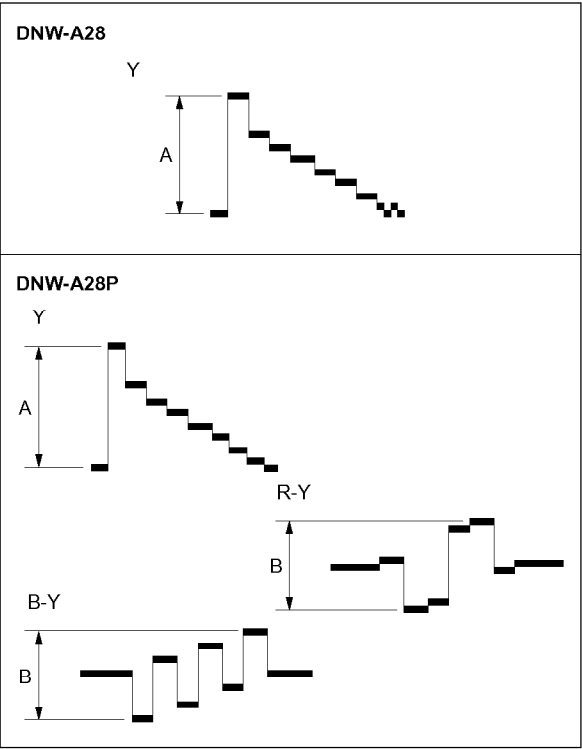
2. OXIDE Y/C confirmation

1. Play back the 75 % color-bar signal portion (0 : 00 to 3 : 00) of the alignment tape CR5-2A or CR5-2A PS, and then check that each component signal level is satisfied. Perform the adjustment only when the level is out of specification. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)

Note

For DNW-A28, observe Y signal only.

Observation component	Specifications	Adjustment point
Y	A = 700 ± 7 mV	RV504/DM-114 (*J-3)
R-Y/B-Y	— (DNW-A28) B = 525 ± 5 mV p-p (DNW-A28P)	RV704/DM-114 (*J-5) DNW-A28P only



2. Eject the alignment tape.

9-9-17. VCO Lock-in Range Adjustment

It is not necessary to perform this adjustment when the board is replaced.

Measuring equipment : Oscilloscope

1. Extend the DM-114/114P board.
(Refer to Section 1-7.)
2. Connect and set the oscilloscope as follows :
 CH-1 : TP1401/DM-114 (*F-2), DC 1 V/DIV
 GND : E1401/DM-114 (*F-3)
 CH-2 : TP1601/DM-114 (*F-7), DC 1 V/DIV
 GND : E1601/DM-114 (*G-6)
3. Play back the color-bar signal portion (14 : 00 to 17 : 00) of the alignment tape CR5-1B or CR5-1B PS, then adjust each DC level of Y side and C side.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Adjustment points :

Y (CH-1) side : ●LV1401/DM-114 (F-1)

C (CH-2) side : ●LV1601/DM-114 (F-7)

Specifications :

Y : 2.2 ± 0.2 V dc

C : 2.0 ± 0.2 V dc

4. Stop the playback of the alignment tape.
5. Return the DM-114/114P board to its normal position.

9-9-18. VCO Free-run Adjustment

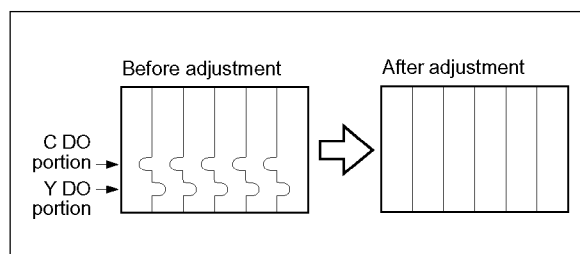
Measuring equipment : Video monitor

1. Set S1801-2/DM-114[IMP OFF] to ON.
2. Play back the color-bar signal portion (26 : 00 to 28 : 00) of the alignment tape CR5-1B or CR5-1B PS.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
3. Adjust the following RVs until the drop-out portions (Y DO and C DO) of color-bar displayed on the video monitor disappear.

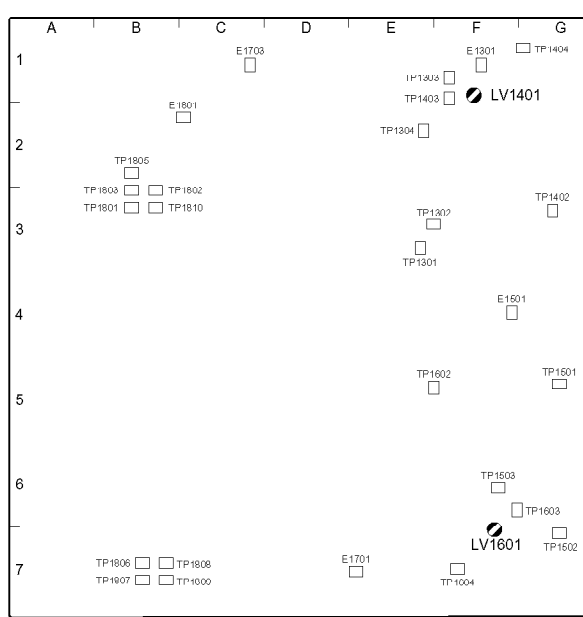
Adjustment points : Y DO : ●RV1402/DM-114 (*G-2)

C DO : ●RV1605/DM-114 (*F-6)

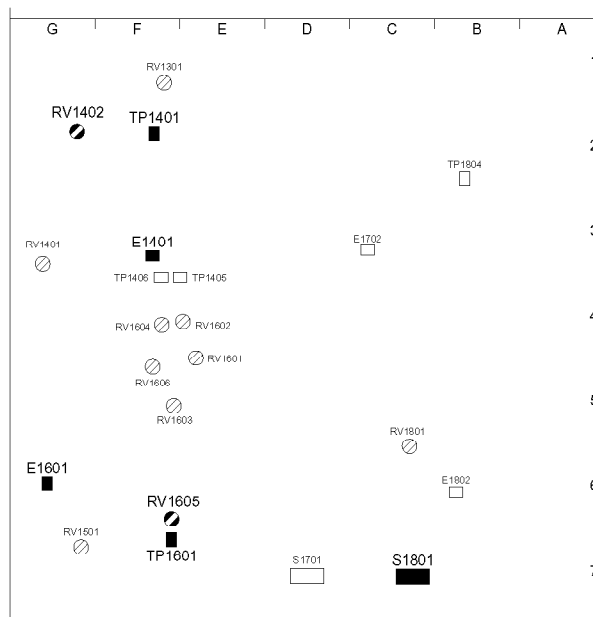
Specifications : See the figure below



4. Stop the playback of the alignment tape.
5. Return S1801-2/DM-114 to OFF.



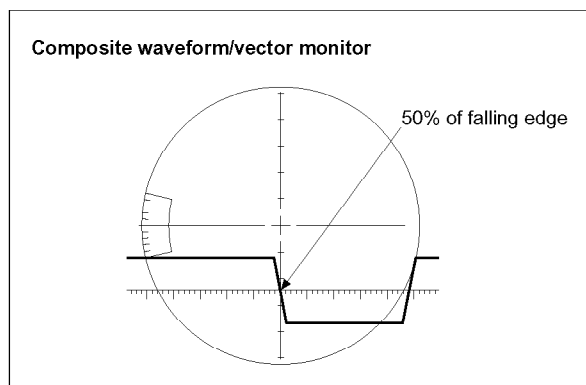
DM-114 Board (A Side)



DM-114 Board (B Side)

1. System SYNC position adjustment

1. Set the composite waveform/vector monitor as follows :
WAVEFORM mode, SWEEP : 2H, MAG ON,
INPUT : CH-A, EXT REF
2. Display the H SYNC signal portion of CH-A side on
the composite waveform/vector monitor, and align
50 % position of falling edge for readability.
(See the figure below.)
3. Play back the bowtie signal portion (17 : 00 to 19 : 00)
of the alignment tape CR5-1B or CR5-1B PS.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
4. Change the observation signal (channel) of the com-
posite waveform/vector monitor from CH-A to
CH-B, then adjust "SYNC PH" item of the sub menu
(Video setting page) so that the 50 % portion for CH-B
corresponds to that for CH-A.



5. Stop the playback of the alignment tape.

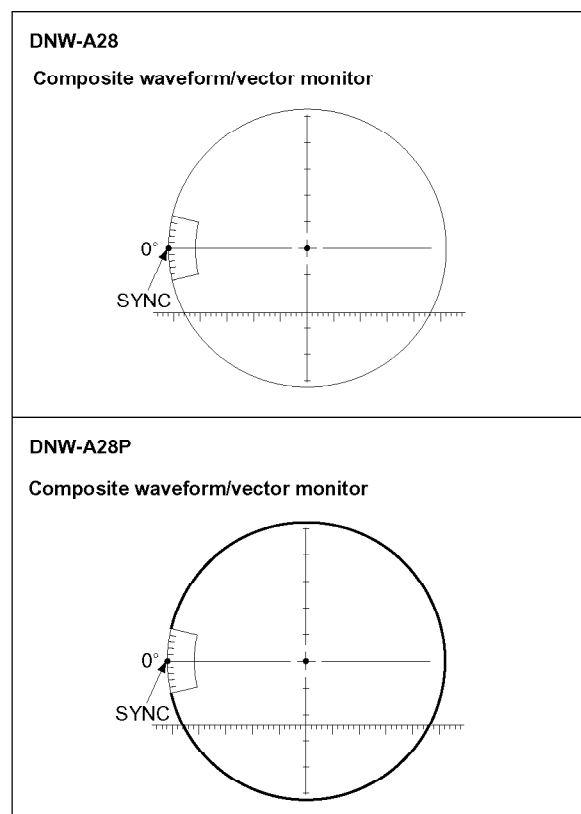
2. System SYNC phase adjustment

1. Set the composite waveform/vector monitor as follows :
SCH mode, INPUT : CH-A, EXT REF
2. Adjust the SYNC phase of CH-A with 0 degree using
PHASE knob of the composite waveform/vector
monitor. (See the figure below.)
Note
Turn the PHASE knob so that the beam spot (SYNC)
moves in the shortest route to 0 degree.
3. Play back the bowtie signal portion (17 : 00 to 19 : 00)
of the alignment tape CR5-1B or CR5-1B PS.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

4. Change the observation signal (channel) of the com-
posite waveform/vector monitor from CH-A to CH-B,
then adjust "SC PH" item of the sub menu (Video
setting page) so that the SYNC (beam spot) of CH-B
is aligned with 0 degree.

Note

Adjust "SC PH" so that the beam spot (SYNC) moves
in the shortest route to 0 degree.



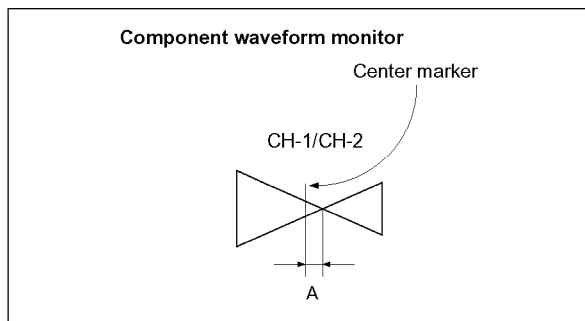
5. Stop the playback of the alignment tape.

3. Y phase adjustment

1. Put the component waveform monitor into BOWTIE mode.
2. Play back the bowtie signal portion (17 : 00 to 19 : 00) of the alignment tape CR5-1B or CR5-1B PS.
(DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
3. Observe the bowtie dip point at CH-1 (Y) and CH-2 (B-Y) signals cross. Adjust so that the deviation between the center marker and bowtie dip point is within specification.

Adjustment point : ●RV1401/DM-114 (*G-3)

Specifications : $A = 0 \pm 10 \text{ ns}$



If the specification is not satisfied by adjustment, perform steps (1) through (4) after setting RV1401 to the mechanical center.

4. Additional adjustment if the PB video phase cannot be adjusted by step 3 (RV1401).

- (1) Play back the bowtie signal portion (17 : 00 to 19 : 00) of the alignment tape CR5-1B or CR5-1B PS again.
- (2) Active the maintenance mode, and select A37 : TBC VR.
- (3) Change the data value of "SQ Y RZ" within ± 1 so that the bowtie dip point moves closer to the center marker.
- (4) Perform step 3 of "3. Y phase adjustment" again.

5. Saving data

Note

Be sure to save data only when SQ Y RZ's data value of A37 : TBC VR is changed.

1. To exit from A37 : TBC VR, press the MENU button on the front panel.
2. Select A3F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
3. Check that the message "Save Complete" is displayed on the video monitor.
4. To exit from A3F : NV-RAM CONTROL, press the MENU button once.
5. To exit from the maintenance mode, press the MENU button three times.
6. Set S1701-4/DM-114 (*D-7) [C MUTE] to OFF.

9-9-20. TBC Y/C Delay Pre-adjustment

Measuring equipment : Digital component waveform monitor

Preparation/Setting

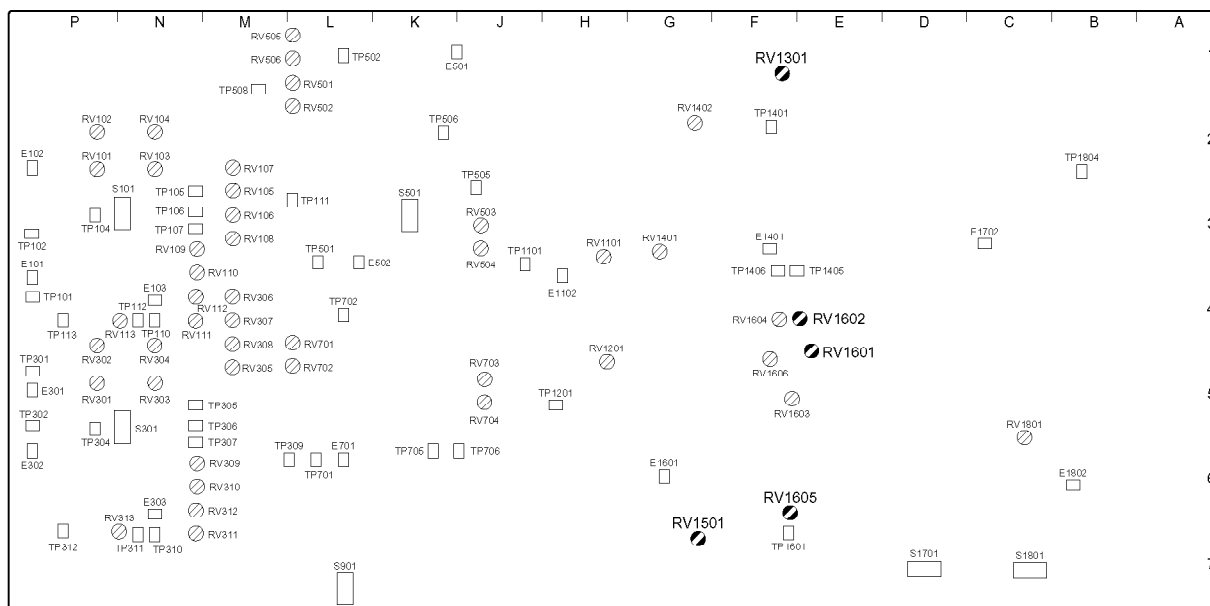
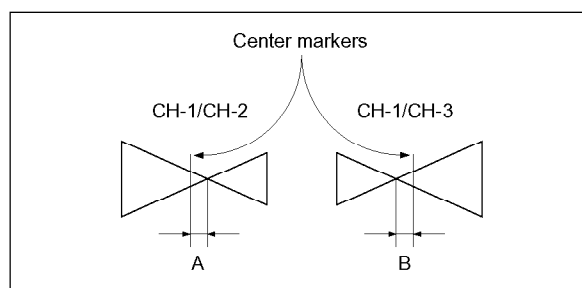
1. Connect the digital component waveform monitor to SDI OUTPUT connector.
2. Turn RV1606/DM-114 (*F-5) fully counterclockwise (○).
3. Put the component waveform monitor into BOWTIE mode.

1. METAL adjustment

1. Play back the bowtie signal portion (17 : 00 to 19 : 00) of the alignment tape CR5-1B or CR5-1B PS. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
2. Observe the bowtie dip points at which the CH-1 (Y) and CH-2 (B-Y) signals cross, and CH-1 (Y) and CH-3 (R-Y) signals cross, adjust so that difference of deviations between each dip point and center marker is within specification.

Adjustment point : ●RV1605/DM-114 (*F-6)

Specification : $A - B = 0 \pm 10 \text{ ns}$



DM-114 Board (B Side)

- Observe the bowtie dip points at which the CH-1 (Y) and CH-2 (B-Y) signals cross, and CH-1 (Y) and CH-3 (R-Y) signals cross, adjust so that each deviation is within specification.

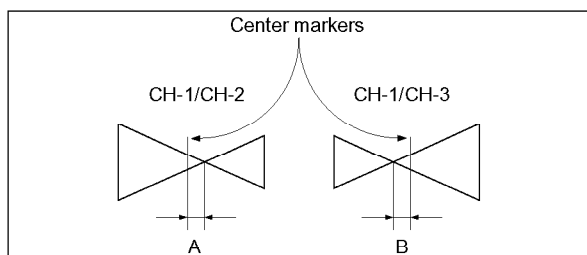
Adjustment points :

Field 1 : ●RV1601/DM-114 (*E-4)

Field 2 : ●RV1602/DM-114 (*E-4)

Specifications : $A = 0 \pm 10 \text{ ns}$

$B = 0 \pm 10 \text{ ns}$



If the specification is not satisfied by adjusting RV1601, perform steps 7 through 10 after setting RV1601 to the mechanical center.

2. Additional adjustment if the Y/C delay cannot be adjusted by step 1 (RV1601)

- Play back the bowtie signal portion (17 : 00 to 19 : 00) of the alignment tape CR5-1B or CR5-1B PS again.
- Activate the maintenance mode, then select A37 : TBC VR.
- Change the data value of "SQ C RZ" within ± 2 so that the bowtie dip points at which the CH-1 (Y) and CH-2 (B-Y) signals cross, and CH-1 (Y) and CH-3 (R-Y) signals cross, move closer to each center marker.
- Perform step 3 of "1. METAL adjustment" again.

3. Saving data

Note

Be sure to save data only when SQ C RZ's data value of A37 : TBC VR is changed.

- To exit A37 : TBC VR, press the MENU button on the front panel.
- Select A3F : NV-RAM CONTROL, then execute "SAVE ALL ADJUST DATA."
- Check that the message "Save Complete" is displayed on the video monitor.
- To exit from A3F : NV-RAM CONTROL, press the MENU button once.
- To exit from the maintenance mode, press the MENU button three times again.
- Stop the playback of the alignment tape CR5-1B/CR5-1B PS.

9-9-21. Impact Error Offset Adjustment

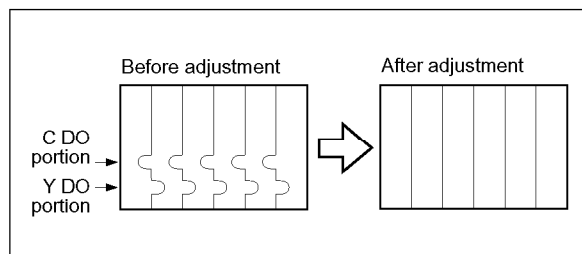
Measuring equipment : Video monitor

- Play back the color-bar signal portion (26 : 00 to 28 : 00) of the alignment tape CR5-1B or CR5-1B PS. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
- Adjust the following RVs until the drop-out portions (Y DO and C DO) of color-bar displayed on the video monitor disappear.

Adjustment points : Y DO : ●RV1301/DM-114 (*F-1)

C DO : ●RV1501/DM-114 (*G-7)

Specification : See the figure below.



- Eject the alignment tape.

9-9-22. TBC Y/C Delay Adjustment

Measuring equipments : Digital Component waveform monitor

Preparation/Setting

1. Put the component waveform monitor into BOWTIE mode.

1. METAL adjustment

1. Play back the bowtie signal portion (17 : 00 to 19 : 00) of the alignment tape CR5-1B or CR5-1B PS. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)
2. Observe the bowtie dip point at which the CH-1 (Y) and CH-2 (B-Y) signals cross. Adjust so that the deviation between the center marker and bowtie dip point is within specification. Then observe the point at which the CH-1 (Y) and CH-3 (R-Y) signals cross and adjust in the same manner.

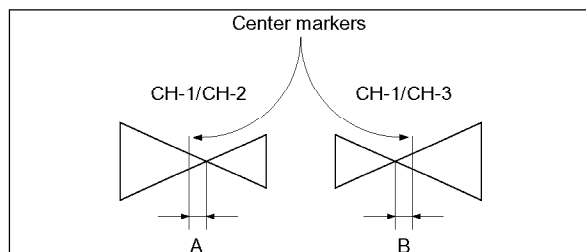
Adjustment points :

Field 1 : ●RV1601/DM-114 (*E-4)

Field 2 : ●RV1602/DM-114 (*E-4)

Specifications : $A = 0 \pm 10$ ns

$B = 0 \pm 10$ ns



3. Eject the alignment tape.

2. OXIDE adjustment

1. Play back the bowtie signal portion (6 : 00 to 9 : 00) of the alignment tape CR5-2A or CR5-2A PS. (DNW-A28 : CR5-2A, DNW-A28P : CR5-2A PS)
2. Observe the bowtie dip point at which the CH-1 (Y) and CH-2 (B-Y) signals cross. Adjust so that the deviation between the center marker and bowtie dip point is within specification. Then observe the point at which the CH-1 (Y) and CH-3 (R-Y) signals cross and adjust in the same manner.

Adjustment point : ●RV1603/DM-114 (*F-5)

●RV1604/DM-114 (*F-4)

Specifications : $A = 0 \pm 10$ ns

$B = 0 \pm 10$ ns

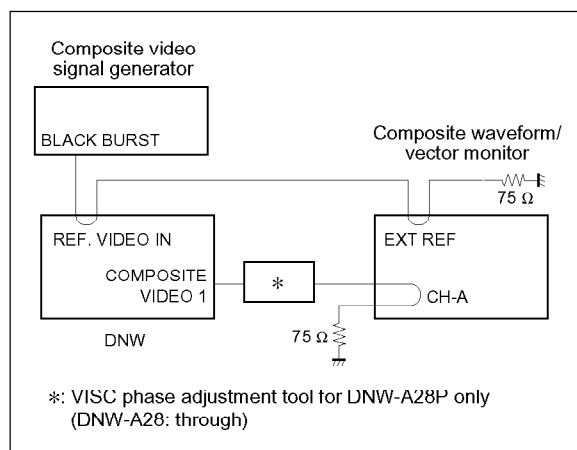
3. Eject the alignment tape.

9-9-23. VISC Phase Adjustment

Measuring equipment : Composite waveform/vector monitor

Preparation/Setting

1. Connect the video signal generator, measuring equipment, (VISC adjustment tool for DNW-A28P) and video monitor as shown above.



2. Start up the maintenance mode. (Refer to Section 9-1-1.)
3. Select "A37 : TBC VR."
4. Press the SET button on the front panel to enable the tape operation.
5. Set the composite waveform/vector monitor as follows : SCH mode, INPUT : CH-A, EXT REF

1. VISC phase adjustment

1. Play back the H sweep signal (with VISC) portion (28 : 00 to 30 : 00) of the alignment tape CR5-1B or CR5-1B PS. (DNW-A28 : CR5-1B, DNW-A28P : CR5-1B PS)

Note

Continue playing back the alignment tape from here to step 2 (3).

Be sure to perform up to step 2 (2) continuously without interval.

2. Set "CAPSTAN LOCK" of the sub menu (General setting page) as follows, then return it to 2FD after two seconds. (Regarding the sub menu setting, refer to Section 2 of operation manual.)
DNW-A28 : 4FD
DNW-A28P : 8FD
3. Adjust the SYNC phase to 0 degree with PHASE knob of the composite waveform/vector monitor.

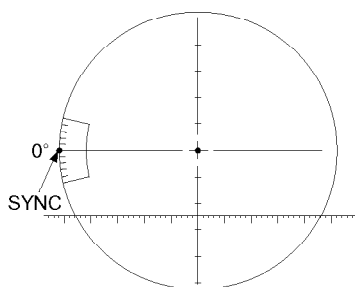
4. Set the composite waveform/vector monitor as follows :
DNW-A28 : VECTOR mode, Line select : 11, EXT REF
DNW-A28P : VECTOR mode, Line select : 8, EXT REF
5. Adjust the center position of VISC (beam spot) to 0 degree with PHASE knob of the composite waveform/vector monitor.
6. Set "CAPSTAN LOCK" of the sub menu (General setting page) as follows :
DNW-A28 : 4FD
DNW-A28P : 8FD
7. Adjust the center position of VISC (beam spot) so as to satisfy the specification.

Adjustment point : ●RV1801/DM-114 (*C-6)
Specifications : Center of beam spot : $0 \pm 5^\circ$

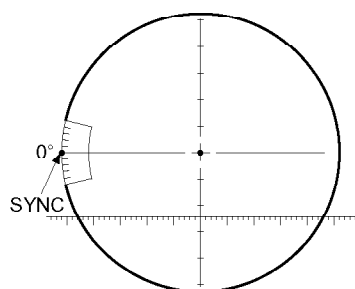
Note

If the specification is not satisfied, perform up to step 2 (2) after setting RV1801 to the mechanical center.

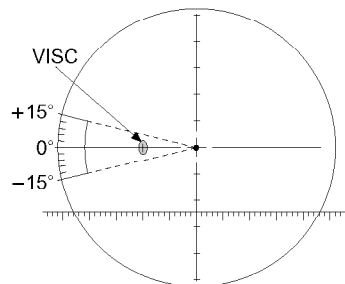
DNW-A28



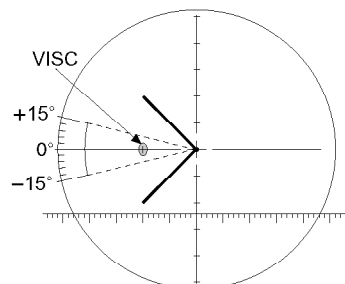
DNW-A28P



DNW-A28



DNW-A28P



2. Additional adjustment if the VISC phase cannot be adjusted by step 1 (RV1801)

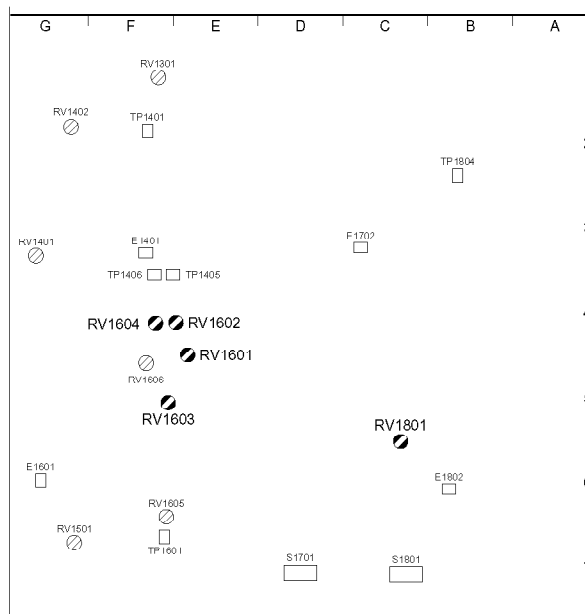
- (1) To activate the maintenance mode, press the MENU button once.
- (2) Change the data value of “VISC PHASE” within ± 1 so that the center of VISC (beam spot) moves closer to 0 degree.
- (3) Press the SET button on the front panel to enable the tape operation.
- (4) Repeat step 7.
- (5) Stop the playback of the alignment tape CR5-1B/CR5-1B PS, and eject it.
- (6) To activate the maintenance mode, press the MENU button once.
- (7) To exit from A37 : TBC VR, press the MENU button once again.

3. Saving data

Note

Be sure to save data only when VISC PHASE's data value of A37 : TBC VR is changed.

1. To exit from A37 : TBC VR, press the MENU button once.
2. Select A3F : NV-RAM CONTROL of the maintenance mode, then execute “SAVE ALL ADJUST DATA.”
3. Check that the message “Save Complete” is displayed on the video monitor.
4. To exit from A3F : NV-RAM CONTROL, press the MENU button once.
5. To exit from the maintenance mode, press the MENU button three times.



DM-114 Board (B Side)

9-10. Timecode Adjustment

9-10-1. LTC Erasure Frequency Adjustment

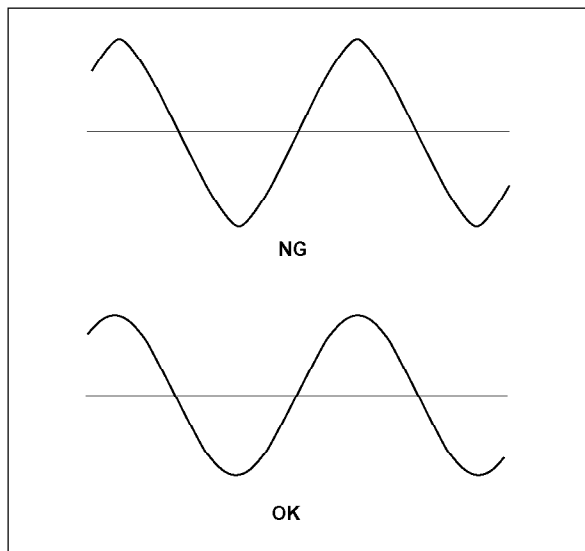
Measuring equipment : Frequency counter and
 Oscilloscope

Preparation :

1. Disconnect the DM-114/DM-114P board.
 (Refer to Section 1-6-2.)

Adjustment :

1. Connect the frequency counter to TP951/SV-194A
 (A-2).
 GND : E951/SV-194A (A-2)
2. Insert a blank SX tape, then put into the recording
 mode.
 Adjustment point : ●LV950/SV-194A (A-2)
 Specification : 40 ± 2 kHz
3. Disconnect the frequency counter and connect the
 oscilloscope to the same test point.
 Specification : No distortion is observed on the
 waveform.



9-10-2. LTC PB Level Check

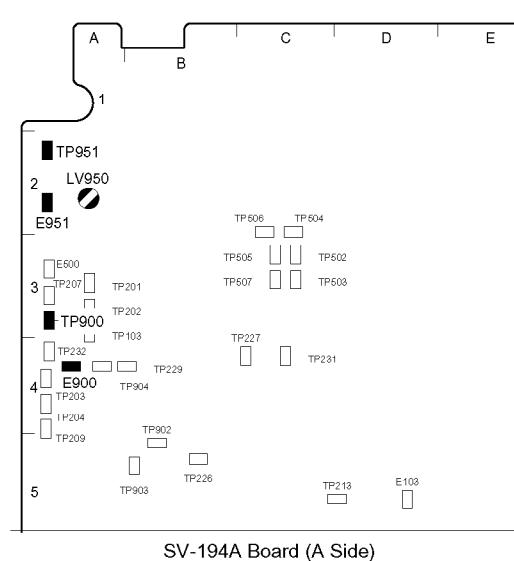
Measuring equipment : Oscilloscope

- (1) Connect the oscilloscope to TP900/SV-194A (A-4).
 GND : E900/SV-194A (A-3)
- (2) Play back the alignment tape SR5-1/SR5-1P and make
 sure that the waveform level is within specification.
 Specification : 700 mVp-p or more
- (3) Rewind the tape in the REW mode, then rewind at -5
 times and at $-1/5$ time normal speed in the shuttle
 mode. Make sure that the waveform level is within
 specification in every mode.
 Specification : 700 mVp-p or more

If the above specifications are not met, perform the tape
 path adjustment again.

Note after Finishing Adjustment

Install the DM-114/114P board removed in section 9-10-1.



SV-194A Board (A Side)



Appendix A

Setting Check Sheet

It is recommended to make a photocopy of check sheets given in this appendix and write down setup conditions such as switches' setting in the check sheets according to application.

If setup conditions are noted, the settings can be returned easily to its original condition after being changed temporarily (when operating condition changes and so on).

And when the unit is to be checked, maintained or repaired, please attach the filled-in check sheets to the unit.

If system combinations are frequently changed according to use, it is convenient to prepare check sheets for every system. Make use of the check sheets to avoid mistakes.

Model name : DNW- Serial No. : _____

- Firmware

SYS1 ROM version : _____

SYS2 ROM version : _____

SV1 ROM version : _____

KY0 ROM version : _____

SW0 ROM version : _____

- Hours meter

Write down readings of hours meter when checking, servicing or maintaining the unit.

ITEM	Date	Hours meter
H01 : OPERATION HOURS	/	
H02 : DRUM RUNNING HOURS	/	
H03 : TAPE RUNNING HOURS	/	
H04 : THREADING COUNTER	/	
H12 : DRUM RUNNING HOURS(Resettable)	/	
H13 : TAPE RUNNING HOURS(Resettable)	/	
H14 : THREADING COUNTER(Resettable)	/	

Connector panel

Switch		Factory setting	Setting		
Analog audio input level	CH1/3	+4 dBu	<input type="checkbox"/> -60	<input type="checkbox"/> 0	<input type="checkbox"/> +4
	CH2/4	+4 dBu	<input type="checkbox"/> -60	<input type="checkbox"/> 0	<input type="checkbox"/> +4
48V (at -60 dBu input level setting)	CH1/3	OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	
	CH2/4	OFF	<input type="checkbox"/> OFF	<input type="checkbox"/> ON	
Reference video input 75 Ω		ON	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	
Composite video input 75 Ω		ON	<input type="checkbox"/> ON	<input type="checkbox"/> OFF	

Front panel

Switch		Factory setting	Setting	
REC/INHIBIT		OFF	<input type="checkbox"/> ON	<input type="checkbox"/> OFF
LOCAL/REMOTE		LOCAL	<input type="checkbox"/> LOCAL	<input type="checkbox"/> REMOTE
TC GENERATOR		INT	<input type="checkbox"/> INT	<input type="checkbox"/> EXT
		PRESET	<input type="checkbox"/> PRESET	<input type="checkbox"/> REGEN
		F-RUN	<input type="checkbox"/> F-RUN	<input type="checkbox"/> R-RUN
PB /PB/EE		PB	<input type="checkbox"/> PB	<input type="checkbox"/> PB/EE
METER		CH-1/2	<input type="checkbox"/> CH-1/2	<input type="checkbox"/> CH-3/4
MAIN AUDIO		PRESET	<input type="checkbox"/> PRESET	<input type="checkbox"/> VARIABLE
SUB AUDIO		PRESET	<input type="checkbox"/> PRESET	<input type="checkbox"/> VARIABLE
MONITOR		1/2	<input type="checkbox"/> 1/2	<input type="checkbox"/> MIX <input type="checkbox"/> 2/1

Internal Slit-lands

Note Never change setting of factory-use Slit-lands.

Board	Name	Channel	Ref. No.	Factory setting	Setting
AU-249	Audio input headroom	CH-1	SL101 SL102	OPEN (20 dB) OPEN	
		CH-2	SL201 SL202	OPEN (20 dB) OPEN	
	Audio output headroom	CH-1	SL301 SL302	OPEN (20 dB) OPEN	
		CH-2	SL401 SL402	OPEN (20 dB) OPEN	
	Monitor output headroom	L	SL501 SL502	OPEN (20 dB) OPEN	
		R	SL601 SL602	OPEN (20 dB) OPEN	
RE-150	Power select		SL1	OPEN	
HP-100	Factory use		SL1	OPEN	—
			SL2	OPEN	—

Internal Switches

Note Never change setting of factory-use switches.

Board	Switch No. :	Name	Factory setting	Setting
AU-249	S1	1-4 : Factory use	OFF (OPEN)	—
DM-114/	S101 :	Y EQ TEST	NORMAL POSITION	—
DM-114P	S301 :	C EQ TEST	NORMAL POSITION	—
	S501 :	Factory use	ON	—
	S901	1 : RF adjusting switch	OFF (OPEN)	—
		2 : Factory use	OFF (OPEN)	—
		3 : AGC OFF	OFF (OPEN)	—
		4 : Factory use	OFF (OPEN)	—
	S1701	1 : Y MUTE	OFF (OPEN)	
		2-3 : Factory use	OFF (OPEN)	—
		4 : C MUTE	OFF (OPEN)	
		5 : COMB	OFF (OPEN)	
		6-8 : Factory use	OFF (OPEN)	—
	S1801	1 : D CLP OFF	OFF (OPEN)	
		2-4 : Factory use	OFF (OPEN)	—
PA-218	S500 :	CH1 HEAD TUNE Switch	Used during adjustment	—
	S600 :	CH2 HEAD TUNE Switch	Used during adjustment	—
SV-194A	S100	1*1 : CASSETTE COMPARTMENT LOCK	OFF (OPEN)	—
		2*2 : SERVO ERR NOT DET	OFF (OPEN)	—
		3 : Factory use	OFF (OPEN)	—
		4 : AUTO-TRACKING OFF	OFF (OPEN)	—
		5-6 : Factory use	OFF (OPEN)	—
SY-259B	S201	1 : EXTENDED MENU	OFF (OPEN)	
		2 : MAINT MODE ACCESS	OFF (OPEN)	
		3-8 : Factory use	OFF (OPEN)	—
	S202	1-2 : Factory use	OFF (OPEN)	—
		Never change the settings of S202 for bits 3 to 8 since each is set according to the characteristics of the unit		
		3-6 : MODEL ID	3 :	OFF (OPEN)
			4 :	ON (CLOSE)
			5 :	OFF (OPEN)
			6 :	OFF (OPEN)
		7 : J/UC		ON (CLOSE)
		8 : 525/625	DNW-A28 :	OFF (OPEN)
			DNW-A28P :	ON (CLOSE)
SY-260	S201	1 : PINCH ON OFF	ON	
		2-8 : Factory use	OFF (OPEN)	—
SW-21	S10	1 : BATT ID	OFF (OPEN)	
		2 : Factory use	OFF (OPEN)	

*1, *2 : Never change setting of the switches S101-1 and S101-2.

For 525/60 System

The sub menu and the setup menu can store the data for 525/60 and 625/50 systems independently.
Therefore, fill out the check sheets for each system, selecting system using the setup menu ITEM-013 :
525/625 SYSTEM SELECT. (Refer to Section 1-19-3.)

525/60 system : Pages A-4 to A-10

625/50 system : Pages A-11 to A-18

Some menu items in the check sheets may be added or changed depending on the ROM version. In this case, please write down notes in the margin.

Sub menu

HOME page

ITEM	Factory setting	Setting
AUDIO SETTING BANK	AU-1	
TIME CODE READER	AUTO	
VITC	VITC ON	
VIDEO INPUT	SDI	

Audio setting page

ITEM	Factory setting	AU-1	AU- 2	AU- 3	AU-4
AU SG	OFF				
AGC	OFF				
LIMITER	OFF				
AUDIO INPUT IN-1	SDI-1				
AUDIO INPUT IN-2	SDI-2				
AUDIO INPUT IN-3	SDI-3				
AUDIO INPUT IN-4	SDI-4				
MIX/SWAP	CH-1	IN-1			
	CH-2	IN-2			
	CH-3	IN-3			
	CH-4	IN-4			
CMPII	OFF				
DOLBY	OFF				
LINE OUT	CH-1/2				
MONITOR LEVEL	FIX				
MONITOR CH	L	CH-1			
	R	CH-2			
MAIN VR	PB				

Video setting page

ITEM		Factory setting	Setting
VIDEO	CONFI	OFF	
	PRESET/ VAR	PRE	
	PREREAD	OFF	
	VIDEO IN	80	
	VIN TRG	OFF	
	OUT REF	REF	
PROCESS CONTROL		PANEL	
(When the above item is set to PANEL)	Y/C DLY	800 PRESET	
	SYNC PH	80	
	SC PH	200	
	SG	OFF	
	AUD SG	SILNC	
	VID SG	BB	

General setting page

ITEM	Factory setting	Setting
SUPER	ALL	
BAT-END	10.5	
BAT-NE	11.0	
CAPSTAN LOCK	4F	
KEY INH	OFF	
DF	DF	
VFD BRIT	LOW	

Set up menu

Note When Banks 1 to 4 menu is recalled, the current menu will be overwritten.
Be sure to write down the current menu settings first, before recalling Banks 1 to 4. And then, write down the Banks' settings.

Main menu

ITEM-000 series : Operational parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
001 : PREROLL TIME	5S					
002 : CHARACTER H-POSITION	14					
003 : CHARACTER V-POSITION	56					
004 : SYNCHRONIZE	ON					
005 : DISPLAY INFORMATION SELECT	I&S I A					
006 : LOCAL FUNCTION ENABLE	ST&EJ					
007 : TAPE TIMER DISPLAY	+ -12H					
008 : MONITORING SELECTION FOR VTR-TO-VTR EDIT	MANU					
009 : CHARACTER TYPE	WHITE					
011 : CHARACTER V-SIZE	x1					
013*1 : 525/625 SYSTEM SELECT	OFF	-	-	-	-	-
014 : SEQUENTIAL RECORD MODE	OFF					
017 : CHARACTER PRESET	OFF					

*1 : ITEM-013 has no relation with Banks.

ITEM-B00 series : Menu bank parameter

It is unnecessary to write down the setting for this series.
Each item of B00 series is set to OFF in the normal state. Set to ON only when executing each item.
After execution, each item returns to OFF automatically.

Extended menu

ITEM-100 series : Operational panel parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
101 : SELECTION FOR SEARCH DIAL ENABLE	DIAL					
104 : AUDIO MUTING TIME	OFF					
105 : REFERENCE SYSTEM ALARM	OFF					
106 : CAPSTAN LOCK	SW					
107 : REC INHIBIT LAMP FLASHING	OFF					
108 : AUTO EE SELECT	S/F/R					
109 : FORCED EE WHEN TAPE UNTHREAD	ON					
118 : KEY INHIBIT SWITCH EFFECTIVE AREA						
SUB-ITEM REMOTE SELECT	DIS					
CONTROL PANEL	DIS					
119 : VARIABLE SPEED LIMIT IN KEY PANEL CONTROL	OFF					
120 : CTL LOCK IN VAR/SHTL	OFF					
122 : AUTO EE WITH ANALOG TAPE	DIS					

ITEM-200 series : Remote interface parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
201 : PARA RUN	DIS					

ITEM-300 series : Editing parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
301 : VAR SPEED RANGE FOR SYNCHRONIZATION	~1.5					
302 : CAPSTAN RE-LOCKING DIRECTION	DECEL					
305 : SYNC GRADE	ACCUR					
306 : DMC INITIAL SPEED	MANUAL					
307 : AUTO-DELETION FOR INCONSISTENT DATA	MANU					
308 : SELECTION OF STD/NON-STD FOR COMPOSITE VIDEO IN	AUTO					
309 : SERVO/AV REFERENCE SELECT	AUTO1					
310 : REC INHIBIT	ALL					
311 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH1	ANALOG CH1					
312 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH2	ANALOG CH2					
313 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH3	NO DEFINITION					
314 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH4	NO DEFINITION					
317 : AUDIO EDIT MODE	CROSS FADE					
318 : EDIT RETRY	ON					
319 : PREREAD SELECT	A/V					
320 : DIGITAL AUDIO PB PROCESS ON EDIT POINT	FADE					
326 : AUTOMATIC IN ENTRY AFTER AUTO EDIT	OFF					

ITEM-400 series : Preroll parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
401 : FUNCTION MODE AFTER CUE-UP	STOP					
402 : TIME REFERENCE FOR PREROLL	CTL					
403 : AUTOMATIC PREROLL REFERENCE ENTRY	DIS					

ITEM-500 series : Tape protection parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
501 : STILL TIMER	8M					
502 : TAPE PROTECTION MODE FROM SEARCH	STEP					

ITEM-600 series : Time code generator parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
601 : VITC POSITION SEL-1	16H					
602 : VITC POSITION SEL-2	18H					
603*1 : ID CODE PRESET	OFF	—	—	—	—	—
604 : ID CODE SW	OFF					
605 : TCG REGEN MODE	TC&UB					
606 : TC OUTPUT SIGNAL IN REGEN MODE	TAPE					
607 : U-BIT BINARY GROUP FLAG	000					
608 : PHASE CORRECTION	OFF					
609 : TCG CF FLAG	OFF					
610 : REGEN CONTROL MODE	AS&IN					

*1 : ITEM-603 has no relation with Banks.

ITEM-700 series : Video control parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
701 : SELECTION OF VIDEO DELAY/SYNC DELAY	VIDEO					
703 : BLANK LINE SELECT						
SUB-ITEM	0 : All line	---				
	12 : 12 line	BLANK				
	13 : 13 line	BLANK				
	14 : 14 line	BLANK				
	15 : 15 line	BLANK				
	16 : 16 line	BLANK				
	17 : 17 line	BLANK				
	18 : 18 line	BLANK				
	19 : 19 line	BLANK				
	20 : 20 line	BLANK				
	21 : 21 line	BLANK				
704 : DECODE Y/C SEP MODE						
SUB-ITEM	12 : 12 line	B&W				
	13 : 13 line	B&W				
	14 : 14 line	B&W				
	15 : 15 line	B&W				
	16 : 16 line	B&W				
	17 : 17 line	B&W				
	18 : 18 line	B&W				
	19 : 19 line	B&W				
	20 : 20 line	B&W				
	21 : 21 line	COMB				
	22 : 22 line	COMB				
705 : EDGE SUBCARRIER REDUCER MODE	AUTO					
706 : VERTICAL BLANKING V SHIFT	ON					
707 : FORCED VERTICAL INTERPOLATION OFF	AUTO					
712 : VIDEO PROCESS ON CAP LOCK 2FIELD	OFF					
713 : VIDEO SETUP REFERENCE LEVEL						
SUB-ITEM	0 : MASTER LEVEL	7.5%				
	1 : INPUT LEVEL	MSTER				
	2 : INPUT VBLK CNT	THROU				
	3 : BETACAM PB LEVEL	MSTER				
	4 : OUTPUT LEVEL	MSTER				
714 : VIDEO ADJUST RANGE	-3 ~ +3					
715 : VIDEO GAIN CONTROL	800H					
716 : CHROMA GAIN CONTROL	800H					
717 : CHROMA PHASE CONTROL	80H					
718 : SETUP LEVEL	110H					
719 : SYSTEM PHASE SYNC	80H					
720 : SYSTEM PHASE SC	0H					

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
721 : Y/C DELAY	800H					
723 : INPUT VIDEO BLACK						
SUB-ITEM	0 : All line	---				
	12 : 12 line	BLANK				
	13 : 13 line	BLANK				
	14 : 14 line	BLANK				
	15 : 15 line	BLANK				
	16 : 16 line	BLANK				
	17 : 17 line	BLANK				
	18 : 18 line	BLANK				
	19 : 19 line	BLANK				
	20 : 20 line	BLANK				
726 : H BLANKING WIDTH	WIDE					
727 : VIDEO EDIT PREVIEW SWITCHER	INT					
728 : OUTPUT SCH PHASE SETTING	800H					
730 : PICTURE SHIFT	OFF					

ITEM-800 series : Audio control parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
802 : DIGITAL AUDIO MUTE IN SHUTTLE MODE	OFF					
803 : DIGITAL AUDIO FADE TIME	10ms					
805 : AUDIO MONITOR OUTPUT MIXING	RMS					
807 : AUDIO OUTPUT PHASE	80					
810 : AUDIO EDIT PREVIEW SWITCHER	INT					

ITEM-900 series : Digital process parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
911 : NO COMPRESSION LINE	OFF					
912 : SEQUENTIAL RECORD INPUT SIGNAL	PARALLEL					

ITEM-F00 series: Adjustment use only

It is unnecessary to reset for normal operation.

Do not change setting of each item from its factory-set position.

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
F01 : AUDIO NR IN SP MODE	ON					
F02 : EMERGENCY TAPE PROTECTION	ENA					
F13 : TRACKING CONTROL VIA SEARCH DIAL	OFF					
F16 : DEVICE TYPE MODIFY	0					
F21 : PROCESS CONT VR	OFF					

For 625/50 System

The sub menu and the setup menu can store the data for 525/60 and 625/50 systems independently. Then fill out the check sheets for each system, selecting system using the setup menu ITEM-013 : 525/625 SYSTEM SELECT. (Refer to Section 1-19-3.)

525/60 system : Pages A-4 to A-10

625/50 system : Pages A-11 to A-18

Some menu items in the check sheets may be added or changed depending on the ROM version. In this case, please write down notes in the margin.

Sub menu

Home page

ITEM	Factory setting	Setting
AUDIO SETTING BANK	AU-1	
TIME CODE READER	AUTO	
VITC	VITC ON	
VIDEO INPUT	SDI	

Audio setting page

ITEM	Factory setting	AU-1	AU- 2	AU- 3	AU-4
AU SG	OFF				
AGC	OFF				
LIMITER	OFF				
AUDIO INPUT IN-1	SDI-1				
AUDIO INPUT IN-2	SDI-2				
AUDIO INPUT IN-3	SDI-3				
AUDIO INPUT IN-4	SDI-4				
MIX/SWAP	CH-1	IN-1			
	CH-2	IN-2			
	CH-3	IN-3			
	CH-4	IN-4			
CMPI	OFF				
DOLBY	OFF				
LINE OUT	CH-1/2				
MONITOR LEVEL	FIX				
MONITOR CH	L	CH-1			
	R	CH-2			
MAIN VR	PB				

Video setting page

ITEM		Factory setting	Setting
VIDEO	CONFI	OFF	
	PRESET/VAR	PRE	
	PREREAD	OFF	
	VIDEO IN	80	
	VIN TRG	OFF	
	OUT REF	REF	
PROCESS CONTROL		PANEL	
(When the above item is set to PANEL)	Y/C DLY	800 PRESET	
	SYNC PH	80	
	SC PH	200	
	SG	OFF	
	AUD SG	SILNC	
	VID SG	BB	

General setting page

ITEM		Factory setting	Setting
SUPCR		ALL	
BAT-END		10.5	
BAT-NE		11.0	
CAPSTAN LOCK		4F	
KEY INH		OFF	
VFD BRIT		LOW	

Setup menu

Note When Banks 1 to 4 menu is recalled, the current menu will be overwritten.
Be sure to write down the current menu settings first, before recalling Banks 1 to 4. And then, write down the Banks' settings.

Main menu

ITEM-000 series : Operational parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
001 : PREROLL TIME	5S					
002 : CHARACTER H-POSITION	12					
003 : CHARACTER V-POSITION	6A					
004 : SYNCHRONIZE	ON					
005 : DISPLAY INFORMATION SELECT	I&S I A					
006 : LOCAL FUNCTION ENABLE	ST&EJ					
007 : TAPE TIMER DISPLAY	+ - 12H					
008 : MONITORING SELECTION FOR VTR-TO-VTR EDIT	MANU					
009 : CHARACTER TYPE	WHITE					
011 : CHARACTER V-SIZE	x1					
013*1 : 525/625 SYSTEM SELECT	OFF	-	-	-	-	-
014 : SEQUENTIAL RECORD MODE	OFF					
017 : CHARACTER PRESET	OFF					

*1 : ITEM-013 has no relation with Banks.

ITEM-B00 series : Menu bank parameter

It is unnecessary to write down the setting for this series.
Each item of B00 series is set to OFF in the normal state. Set to ON only when executing each item.
After execution, each item returns to OFF automatically.

Extended menu

ITEM-100 series : Operational panel parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
101 : SELECTION FOR SEARCH DIAL ENABLE	DIAL					
104 : AUDIO MUTING TIME	OFF					
105 : REFERENCE SYSTEM ALARM	OFF					
106 : CAPSTAN LOCK	SW					
107 : REC INHIBIT LAMP FLASHING	OFF					
108 : AUTO EE SELECT	S/F/R					
109 : FORCED EE WHEN TAPE UNTHREAD	ON					
118 : KEY INHIBIT SWITCH EFFECTIVE AREA						
SUB-ITEM	REMOTE SELECT	DIS				
	CONTROL PANEL	DIS				
119 : VARIABLE SPEED LIMIT IN KEY PANEL CONTROL	OFF					
120 : CTL LOCK IN VAR/SHTL	OFF					
122 : AUTO EE WITH ANALOG TAPE	DIS					

ITEM-200 series : Remote interface parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
201 : PARA RUN	DIS					
202 : CF FLAG REPLY	8F					

ITEM-300 series : Editing parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
301 : VAR SPEED RANGE FOR SYNCHRONIZATION	~1.5					
302 : CAPSTAN RE-LOCKING DIRECTION	ACCEL					
305 : SYNC GRADE	ACCUR					
306 : DMC INITIAL SPEED	MANUAL					
307 : AUTO-DELETION FOR INCONSISTENT DATA	MANU					
308 : SELECTION OF STD/NON-STD FOR COMPOSITE VIDEO IN	AUTO					
309 : SERVO REFERENCE SELECT	AUTO1					
310 : REC INHIBIT	ALL					
311 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH1	ANALOG CH1					
312 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH2	ANALOG CH2					
313 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH3	NO DEFINITION					
314 : ANALOG AUDIO EDIT PRESET REPLACE FOR CH4	NO DEFINITION					
317 : AUDIO EDIT MODE	CROSS FADE					
318 : EDIT RETRY	ON					
319 : PREREAD SELECT	A/V					
320 : DIGITAL AUDIO PB PROCESS ON EDIT POINT	FADE					
326 : AUTOMATIC IN ENTRY AFTER AUTO EDIT	OFF					

ITEM-400 series : Preroll parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
401 : FUNCTION MODE AFTER CUE-UP	STOP					
402 : TIME REFERENCE FOR PREROLL	CTL					
403 : AUTOMATIC PREROLL REFERENCE ENTRY	DIS					

ITEM-500 series : Tape protection parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
501 : STILL TIMER	8M					
502 : TAPE PROTECTION MODE FROM SEARCH	STEP					

ITEM-600 series : Time code generator parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
601 : VITC POSITION SEL-1	19H					
602 : VITC POSITION SEL-2	21H					
603*1 : ID CODE PRESET	OFF	—	—	—	—	—
604 : ID CODE SW	OFF					
605 : TCG REGEN MODE	TC&UB					
606 : TC OUTPUT SIGNAL IN REGEN MODE	TAPE					
607 : U-BIT BINARY GROUP FLAG	000					
608 : PHASE CORRECTION	OFF					
609 : TCG CF FLAG	OFF					
610 : REGEN CONTROL MODE	AS&IN					

*1 : ITEM-603 has no relation with Banks.

ITEM-700 series : Video control parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
701 : SELECTION OF VIDEO DELAY/SYNC DELAY	VIDEO					
703 : BLANK LINE SELECT						
SUB-ITEM	0 : All line	---				
	9 : 9,322 line	BLANK				
	10 : 10,323 line	BLANK				
	11 : 11,324 line	BLANK				
	12 : 12,325 line	BLANK				
	13 : 13,326 line	BLANK				
	14 : 14,327 line	BLANK				
	15 : 15,328 line	BLANK				
	16 : 16,329 line	BLANK				
	17 : 17,330 line	BLANK				
	18 : 18,331 line	BLANK				
	19 : 19,332 line	BLANK				
	20 : 20,333 line	BLANK				
	21 : 21,334 line	BLANK				
	22 : 22,335 line	BLANK				
	23 : 23 line	HALF				
704 : DECODE Y/C SEP MODE						
SUB-ITEM	9 : 9,322 line	B&W				
	10 : 10,323 line	B&W				
	11 : 11,324 line	B&W				
	12 : 12,325 line	B&W				
	13 : 13,326 line	B&W				
	14 : 14,327 line	B&W				
	15 : 15,328 line	B&W				
	16 : 16,329 line	B&W				
	17 : 17,330 line	B&W				
	18 : 18,331 line	B&W				
	19 : 19,332 line	B&W				
	20 : 20,333 line	B&W				
	21 : 21,334 line	B&W				
	22 : 22,335 line	B&W				
705 : EDGE SUBCARRIER REDUCER MODE	AUTO					
706 : VERTICAL BLANKING V SHIFT	ON					
707 : FORCED VERTICAL INTERPOLATION OFF	AUTO					
712 : VIDEO PROCESS ON CAP LOCK 2FIELD	OFF					

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
714 : VIDEO ADJUST RANGE	-3 ~ +3					
715 : VIDEO GAIN CONTROL	800H					
716 : CHROMA GAIN CONTROL	800H					
717 : CHROMA PHASE CONTROL	80H					
718 : SETUP LEVEL	110H					
719 : SYSTEM PHASE SYNC	80H					
720 : SYSTEM PHASE SC	0H					
721 : Y/C DELAY	800H					
723 : INPUT VIDEO BLACK						
SUB-ITEM	0 : All line	---				
	9 : 9,322 line	THROU				
	10 : 10,323 line	THROU				
	11 : 11,324 line	THROU				
	12 : 12,325 line	THROU				
	13 : 13,326 line	THROU				
	14 : 14,327 line	THROU				
	15 : 15,328 line	THROU				
	16 : 16,329 line	THROU				
	17 : 17,330 line	THROU				
	18 : 18,331 line	THROU				
	19 : 19,332 line	THROU				
	20 : 20,333 line	THROU				
	21 : 21,334 line	THROU				
	22 : 22,335 line	THROU				
726 : H BLANKING WIDTH	WIDE					
727 : VIDEO EDIT PREVIEW SWITCHER	INT					
728 : OUTPUT SCH PHASE SETTING	800H					
730 : PICTURE SHIFT	OFF					

ITEM-800 series : Audio control parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
802 : DIGITAL AUDIO MUTE IN SHUTTLE MODE	OFF					
803 : DIGITAL AUDIO FADE TIME	10ms					
805 : AUDIO MONITOR OUTPUT MIXING	RMS					
807 : AUDIO OUTPUT PHASE	80					
810 : AUDIO EDIT PREVIEW SWITCHER	INT					

ITEM-900 series : Digital process parameter

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
911 : NO COMPRESSION LINE	OFF					
912 : SEQUENTIAL RECORD INPUT SIGNAL	PARALLEL					

ITEM-F00 series : Adjustment use only

It is unnecessary to reset for normal operation.

Do not change setting of each item from its factory-set position.

ITEM	Factory setting	Current	Bank 1	Bank 2	Bank 3	Bank 4
F01 : AUDIO NR IN SP MODE	ON					
F02 : EMERGENCY TAPE PROTECTION	ENA					
F13 : TRACKING CONTROL VIA SEARCH DIAL	OFF					
F16 : DEVICE TYPE MODIFY	0					
F21 : PROCESS CONT VR	OFF					



DNW-A28 (SY)
DNW-A28P (SY) E
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SONY®

DIGITAL VIDEOCASSETTE RECORDER

DNW-A28
DNW-A28P

BETACAM SX

MAINTENANCE MANUAL

Volume 2 1st Edition

Serial No. 10001 and Higher: DNW-A28 (SY)

Serial No. 30001 and Higher: DNW-A28 (J)

Serial No. 40001 and Higher: DNW-A28P

⚠ 警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

設置や保守、点検、修理などを行う前に、別冊のメンテナンスマニュアルVolume 1、インストレーションマニュアル、オペレーションマニュアルのそれぞれの「安全のために」を必ずお読みください。

⚠ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

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Manual Structure

Purpose of this manual

This manual is the Maintenance manual volume 2 of digital videocassette recorder DNW-A28/A28P.

This maintenance manual (Volume 1 and 2) is intended for use by trained system and service engineers, and provides the information of maintenance and detailed service (parts replacement, guideline for adjustment, schematic diagrams, board layouts, detailed parts list).

This manual (volume 2) explains about semiconductor pin assignments, detailed parts list, block diagrams, schematic diagrams and board layouts.

Related manuals

Besides this “Maintenance manual”, the following manuals are available for digital videocassette recorder DNW-A28/A28P.

- **Operation Manual (Supplied with the DNW-A28/A28P.)**

This manual is necessary for application and operation (and installation) of the DNW-A28/A28P.

- **Installation Manual (Supplied with the DNW-A28/A28P.)**

This manual describes the information on installing the DNW-A28/A28P.

- **Protocol Manual of Remote (9-pin) Connector (available on request)**

This manual explains the protocol for controlling the VTR via the RS-422A (9-pin serial remote) . If this manual is required, please contact your local Sony Sales Office/Service Center.

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Broadcasting & Professional Systems Company equipment.

Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual for the corresponding unit. The maintenance manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-XX

Contents

Maintenance manual volume 1 (9-967-866-)

This maintenance manual (volume 1 and volume 2) is organized by following sections.

Section 1 Service Overview

Explains the information that is required to service (removal of cabinet and cassette compartment, the functions of printed circuit board, the locations of main part, fixture and measuring equipment information, board extension, NV-RAM/EE-PROM, etc.).

Section 2 Error Messages

Explains the error messages.

Section 3 Maintenance Mode

Explains each menu of the maintenance mode.

Section 4 Periodic Maintenance and Inspection

Explains the recommended periodic maintenance, the cleaning procedure and the video head tip protrusion check procedure.

Section 5 Periodic Maintenance Parts Replacement

Explains the replacement of periodic maintenance parts and overview for replacement of mechanical parts.

Section 6 Main Parts Replacement

Explains the replacement of mechanical parts (except periodic maintenance parts) and circuit boards.

Section 7 Tape Path Alignment

Explains the tape path alignment after replacement of parts that are described in Section 5 and Section 6.

Section 8 Electrical Alignment after Drum Replacement

Explains the electrical alignment associated with replacement of drum.

Section 9 Electrical Alignment

Explains the electrical alignment for the maintenance of this unit.

Section 1 Semiconductor Pin Assignments

This section contains information on semiconductors used for unit.

It includes a complete list of the semiconductors and their ID Nos. for retrieving information on “Semiconductor Pin Assignments” CD-ROM, which is available separately.

Please refer to this section together with the “Semiconductor Pin Assignments” CD-ROM.

Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 2 Spare Parts

Describes the exploded views, the mechanical parts list and the electrical parts list.

Section 3 Circuit Description and Block Diagrams

Describes the circuit description and the block diagrams of overall and each board.

Section 4 Schematic Diagrams

Describes the frame wiring and the schematic diagrams for the unit.

Section 5 Board Layouts

Describes the board layouts for the unit.



Section 1

Spare Parts

1-1. 補修部品注意事項

1. 安全重要部品

△警告

△印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。

これは部品の共通化、改良等によるものです。

部品表には現時点での共通化された補修用部品が記載されています。

3. 部品の在庫

部品表のSP (Supply code) 欄に“o”で示される部品は在庫していないことがあり、納期が長くなることがあります。

4. ハーネス

部品番号の記載されていないハーネスは、サービス部品として登録されていません。

これらは、リストに展開されているコンポーネント部品で補修してください。

5. 仕向区分の表記

部品表中、下記表示のある部品は、その仕向で使用している部品です。

For J: 日本向けモデルに使用

For SY: 上記以外向けモデルに使用

1-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ are critical to safe operation.

Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

Harnesses with no part number are not registered as spare parts.

In need of repair, get components shown in the list and repair using them.

5. Destination Representation

The part indicated “For J/SY” in the spare parts list is used in the unit written below.

For J: The part is used in a unit for Japan.

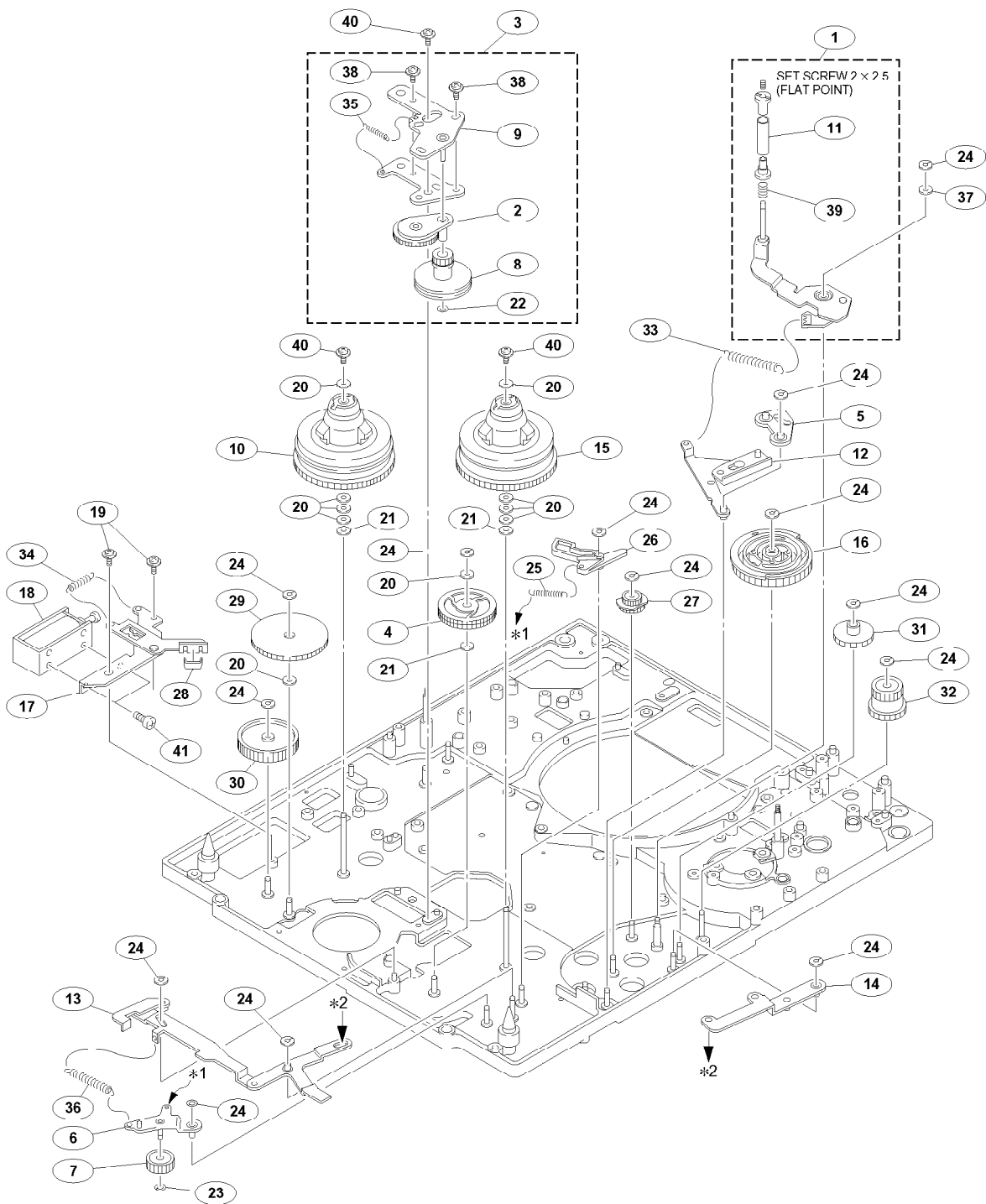
For SY: The part is used in a unit for regions except the above country.

1-2. Exploded Views

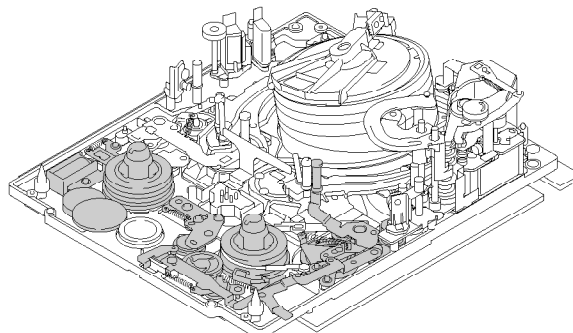
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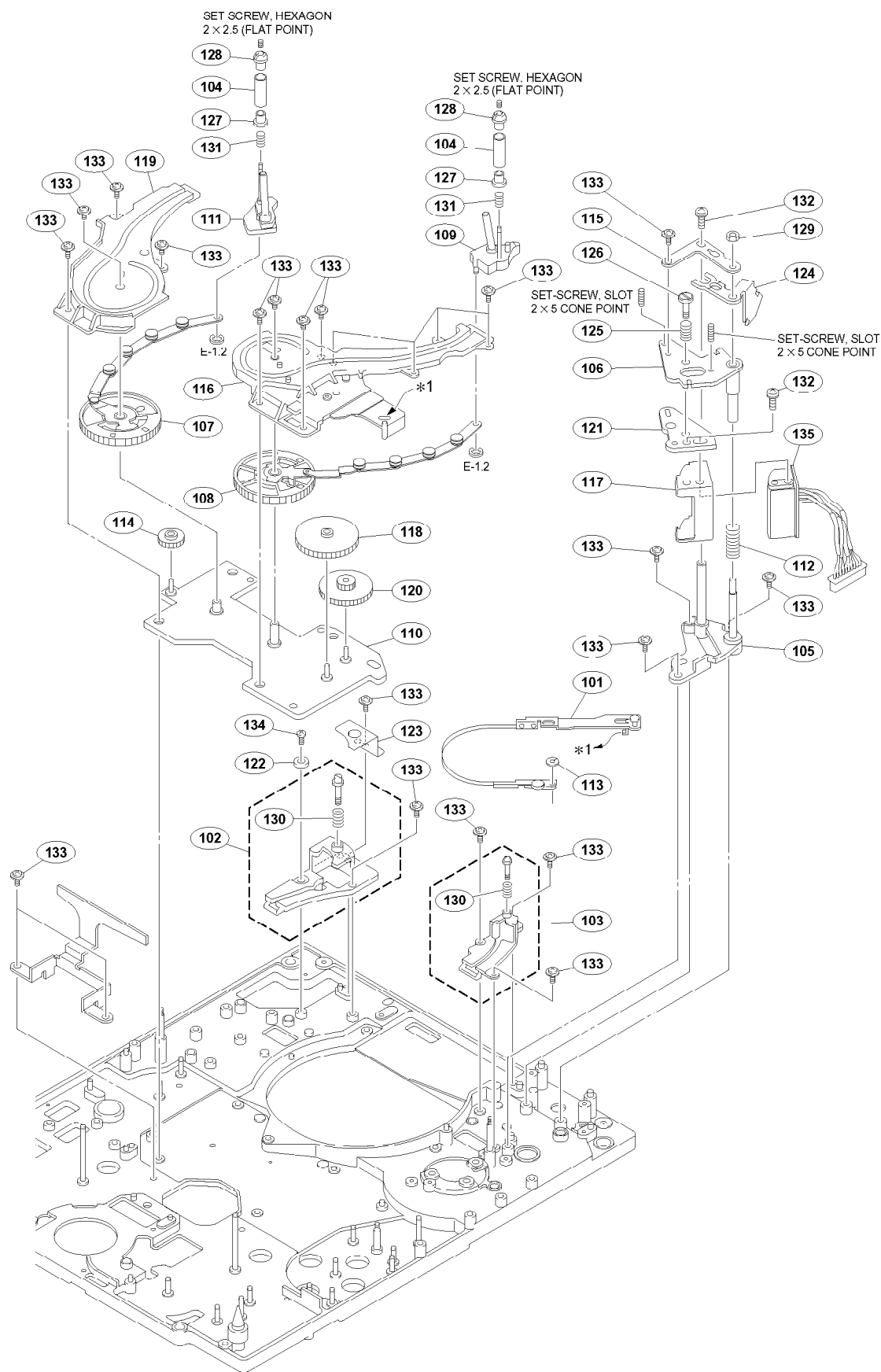
Reel tables and gears



No.	Part No.	SP	Description
1	A-8278-707-C	o	TENSION REGULATOR ASSY,T
2	A-8278-829-C	s	GEAR ASSY
3	A-8278-830-C	s	BASE ASSY,GEAR
4	A-8279-077-A	s	IDLER ASSY,T
5	X-3604-553-1	o	PLATE ASSY,BAND ADJUSTMENT
6	X-3604-570-1	o	ARM ASSY,GEAR,JOINT
7	X-3604-571-1	o	GEAR ASSY,JOINT
8	X-3604-587-2	s	PULLEY ASSY,RELAY
9	X-3604-588-2	o	SUBBASE ASSY
10	X-3604-599-2	s	TABLE ASSY,S REEL
11	X-3678-156-2	s	ROLLER (T) ASSY
12	X-3679-470-3	o	DRAWER ARM ASSY,T TENSION
13	X-3679-473-5	o	ASSY,LINK EJECT
14	X-3679-474-2	o	ARM ASSY,RELEASE
15	X-3679-500-4	s	TABLE ASSY,T REEL
16	X-3679-505-2	o	GEAR ASSY,CAM
17	X-3679-516-3	o	BRACKET,PLUNGER ASSY
18	1-454-334-51	s	SOLENOID,PLUNGER
19	2-640-315-01	o	SCREW(M2X5),SMALL
20	3-303-961-01	s	WASHER, POLY (t=0.13)
21	3-303-961-11	s	WASHER, POLY (t=0.25)
22	3-315-384-11	s	WASHER
23	3-315-384-21	s	WASHER,POLYETHYLENE
24	3-559-408-11	s	WASHER,POLYETHYLENE,DIA.1.2
25	3-561-626-00	s	SPRING, TENSION
26	3-611-414-02	o	BRAKE,T SOFT
27	3-611-468-03	o	GEAR, INTERMITTENT
28	3-611-473-01	s	SHOU,BREAKE
29	3-611-476-02	o	GEAR,MIDWAY(1)
30	3-611-477-03	o	GEAR, IDLE(2)
31	3-611-507-01	o	GEAR,MIDWAY
32	3-611-561-01	o	GEAR,JOINT
33	3-613-608-01	s	SPRING,EXTENSION
34	3-613-616-01	s	SPRING,EXTENSION
35	3-613-958-01	s	SPRING,EXTENSION
36	3-658-197-00	s	SPRING,TENSION
37	3-701-437-01	s	WASHER PLASTIC (2.1X0.14)
38	3-703-502-31	s	SCREW,M1.4X3
39	3-729-011-01	s	SPRING, COMPRESSION(COIL)
40	3-729-013-41	s	SCREW,WASHERHEAD(+P)
41	7-627-554-07	s	SCREW,PRECISION +P2X2.2

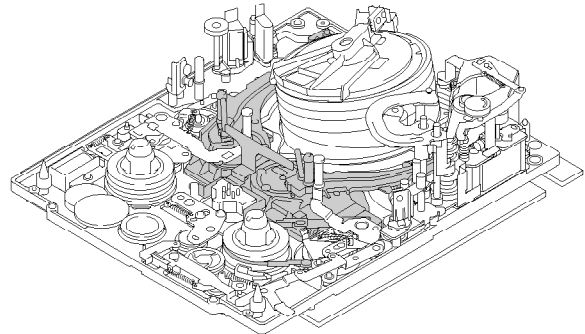


Threading link and AT head

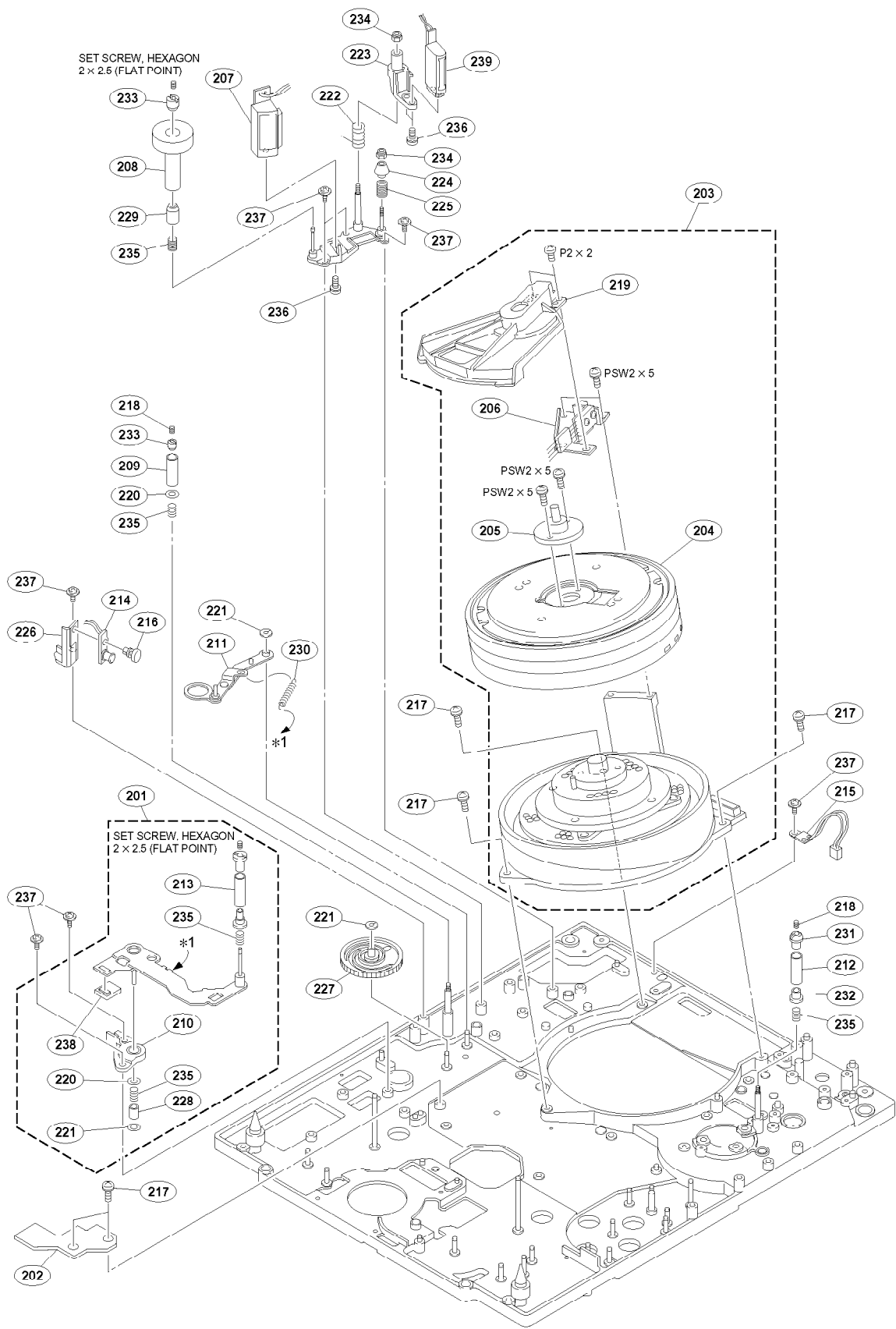


Threading link and AT head

No.	Part No.	SP	Description
101	A-8278-704-D	s	RAND ASSY,TENSTON REGULATOR
102	A-8278-705-E	o	CATCHER ASSY,S
103	A-8278-706-C	o	CATCHER ASSY,T
104	X-3678-091-3	s	COLLER ASSY
105	X-3679-491-1	o	BASE ASSY,A/T
106	X-3679-502-1	o	PLATE ASSY,A/T
107	X-3679-504-5	s	GEAR ASSY,THREADING S
108	X-3679-506-5	s	GEAR ASSY,THREADING T
109	X-3679-507-2	s	X ASSY,T SLIDER
110	X-3679-513-4	o	BASE,ASSY THGEAR
111	X-3679-514-3	s	X ASSY,S SLIDER
112	3-534-236-00	s	SPRING, COMPRESSION
113	3-559-408-11	s	WASHER,POLYETHYLENE,DIA.1.2
114	3-611-378-02	s	GEAR,S(S)
115	3-611-424-01	o	DAMPER,AT
116	3-611-485-04	o	RAIL T
117	3-611-536-02	o	CASE,SHIELD
118	3-611-545-01	s	GEAR
119	3-611-546-05	o	RAIL S
120	3-611-547-02	s	GEAR,DRIVING MIDWAY
121	3-611-566-01	o	PLATE,AT HEAD
122	3-612-803-01	o	SPACER (SUS)
123	3-613-689-01	o	CATCHER PLATE
124	3-615-789-01	o	CLAMP (A/T)
125	3-669-316-00	s	SPRING,COMPRESSION
126	3-680-223-01	s	SHAFT
127	3-682-273-01	s	FLANGE, LOWER, T2
128	3-682-274-01	s	FLANGE, UPPER, T2
129	3-698-829-01	s	NUT,NYLON
130	3-716-167-01	s	SPRING,COMPRESSION(COIL)
131	3-729-011-01	s	SPRING, COMPRESSION(COIL)
132	3-729-012-21	s	SCREW (M2X4)
133	3-729-013-41	s	SCREW,WASHERHEAD (+P)
134	7-627-551-77	s	SCREW, PRECISION +P1.4X4
135	8-825-920-02	s	HEAD, AUDIO (EPS244-2103J)

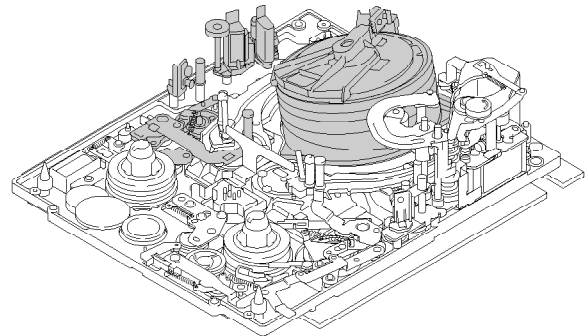


Drum and S-tension regulator

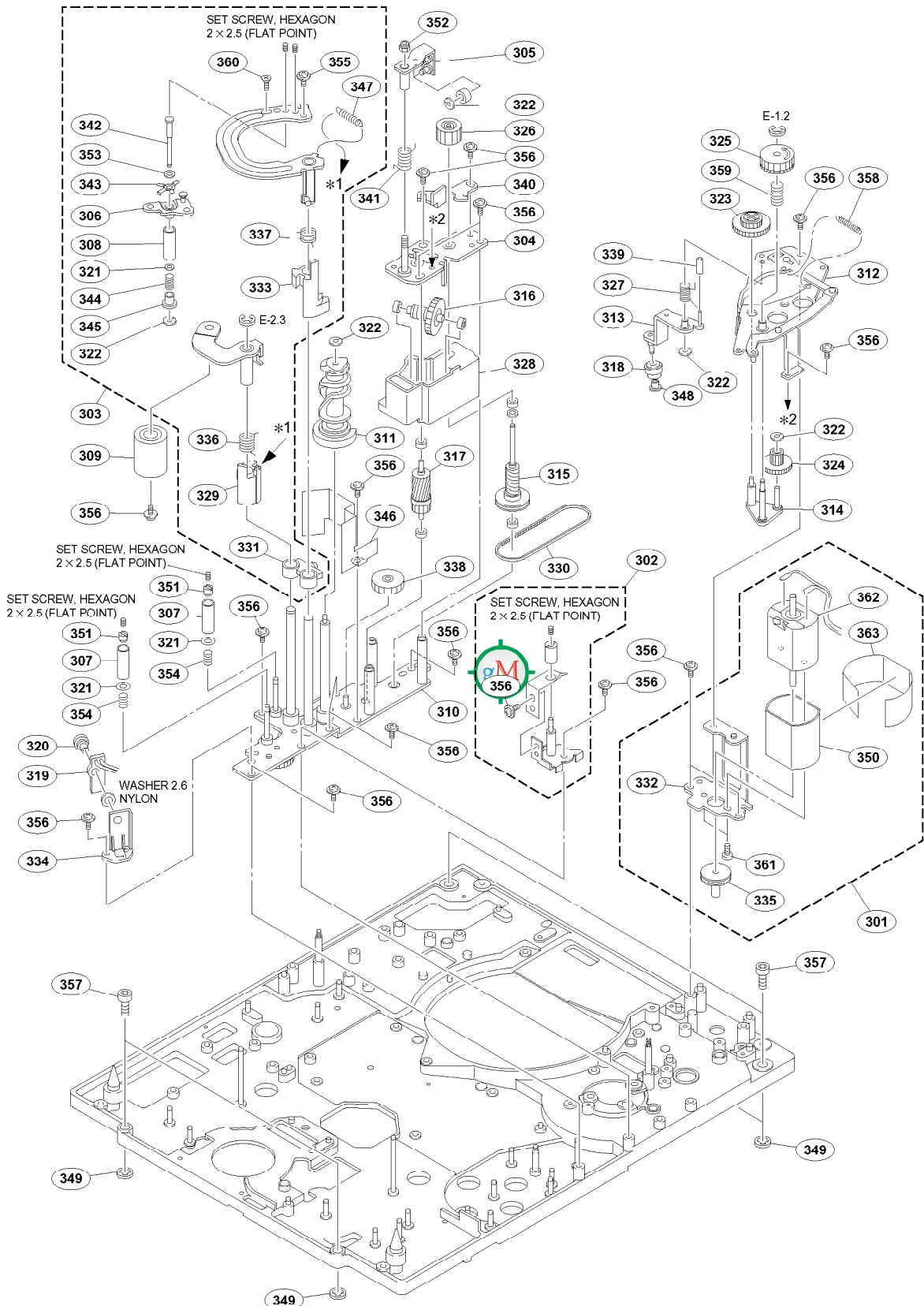


Drum and S-tension regulator

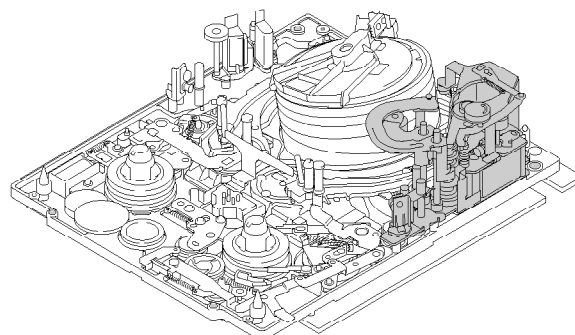
No.	Part No.	SP Description
201	A-8278-718-C	o S TENSTON REGURATOR ASSY
202	A-8316-674-A	o MOUNTED CIRCUIT BOARD, SR-65
203	A-8317-459-B	s DJH-20AB-R
204	A-8317-461-B	s DJR-20B-R(UPPER DRUM)
205	A-8317-463-A	s RING ASSY (4CH (R/P)), SLIP
206	A-8317-464-A	s BRUSH ASSY (4CH (R/P))
207	X-3167-316-2	s HEAD (EF 291-21) ASSY
208	X-3604-660-1	s ROLLER IMPEDANCE
209	X-3678-068-2	s ROLLER ASSY, RESIN
210	X-3678-090-1	o HOLDER ASSY, BEARING
211	X-3678-109-2	o ARM ASSY, DRAWER
212	X-3678-129-2	s ROLLER (2) ASSY, RESIN
213	X-3678-156-2	s ROLLER (T) ASSY
214	1-543-316-21	s HEAD, SENSING (SMALL TYPE)
215	1-810-599-11	s SENSOR, DEW CONDENSATION
216	2-279-715-01	s RIVET, NYLON
217	2-640-315-01	o SCREW (M2X5), SMALL
218	2-990-477-01	s SCREW (M2X2), HEXAGON SOCKET
219	3-203-006-02	o COVER, DRUM
220	3-557-565-00	s WASHER (1.4 DIA)
221	3-559-408-11	s WASHER, POLYETHYLENE, DIA.1.2
222	3-603-615-02	s SPRING, COIL, HEAD
223	3-603-664-01	o ARM, CTL
224	3-603-672-01	o SPACER TAPER
225	3-603-678-01	s SPRING, COMPRESSION
226	3-611-469-05	o HOLDER, SENSOR
227	3-611-475-01	o GEAR, DRAWER ARM
228	3-611-665-01	o SPRING
229	3-615-788-01	s SPACER, IR
230	3-616-392-01	s SPRING, EXTENSION
231	3-679-729-02	s FLANGE, UPPER
232	3-680-230-01	s FLANGE, LOWER
233	3-681-768-01	o NUT, S3
234	3-698-829-01	s NUT, NYLON
235	3-729-011-01	s SPRING, COMPRESSION (COIL)
236	3-729-012-01	s SCREW (M2X5)
237	3-729-013-41	s SCREW, WASHERHEAD (+P)
238	3-967-714-01	s MAGNET, ET (FERRITE)
239	8-825-779-72	s CTL HEAD, PS244-21D



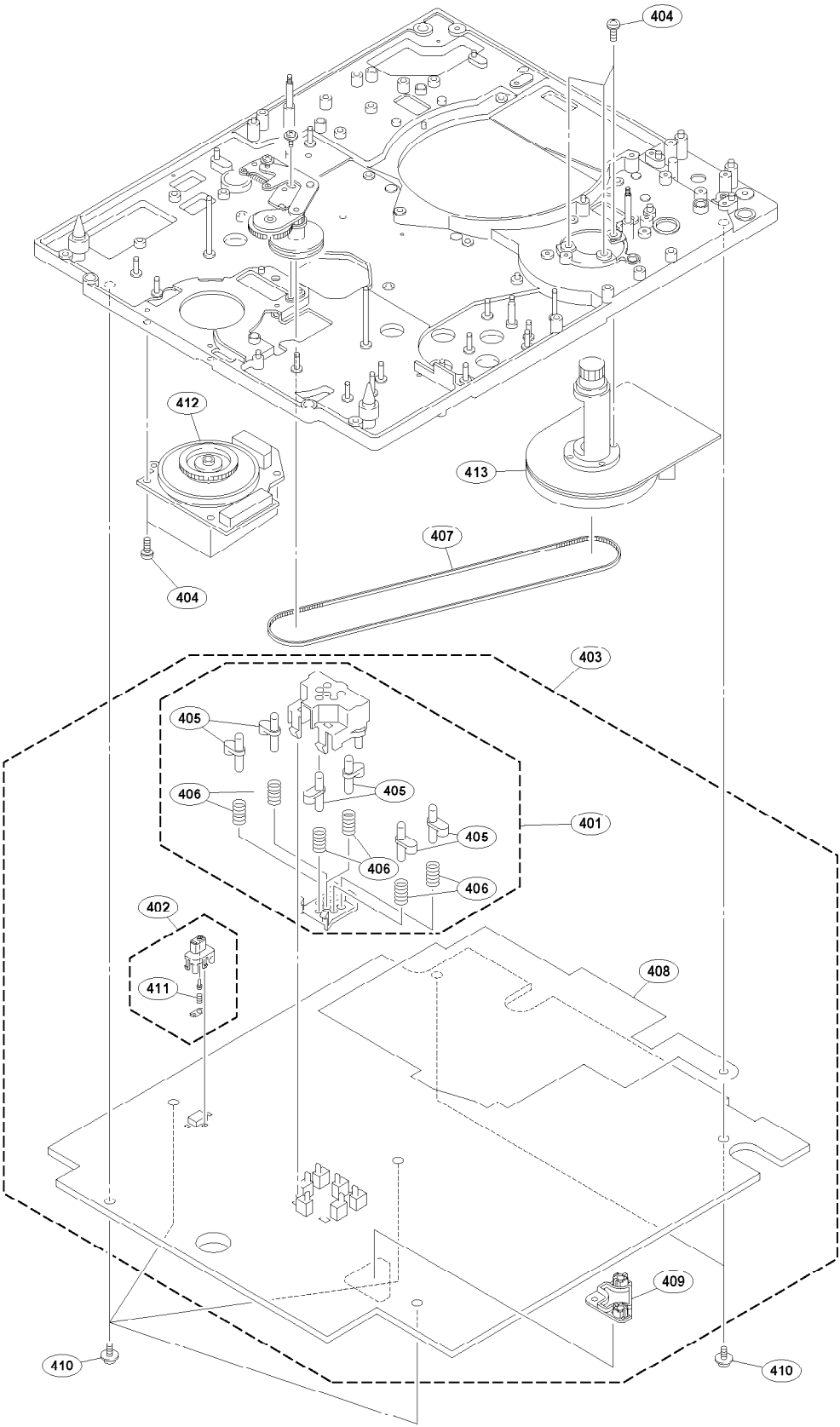
T-drawing block



No.	Part No.	SP	Description
301	A-8278-701-C	s	MOTOR ASSY,LOADING
302	A-8278-799-C	o	LOCK ASSY,ARM(T)
303	A-8321-383-D	s	DRAWER SUB ASSY, T
304	X-3604-554-2	o	PLATE(2)ASSY
305	X-3604-555-3	o	PLATE,ADJUSTMENT
306	X-3604-557-2	o	PLATE ASSY,BASE T3
307	X-3678-068-2	s	ROLLER ASSY,RESIN
308	X-3678-091-3	s	COIL,FR ASSY
309	X-3678-926-1	s	PINCH ROLLER ASSY
310	X-3679-472-6	o	BASE ASSY,DRAWER
311	X-3679-478-3	s	CAM ASSY,PINCH PRESS
312	X-3679-485-5	o	BASE ASSY,VHC
313	X-3679-486-2	o	ARM ASSY,CR
314	X-3679-487-2	o	BASE ASSY,ME
315	X-3679-494-2	o	GEAR ASSY,GB(1)
316	X-3679-495-1	o	GEAR,ASSY GB(2)
317	X-3679-496-2	o	GEAR,ASSY GB(3)
318	X-3949-109-1	s	ROLLER ASSY,AHC
319	1-543-316-21	s	HEAD,SENSING (SMALL TYPE)
320	2-279-715-01	s	RIVET,NYLON
321	3-557-565-00	s	WASHER(1.4 DIA)
322	3-559-408-11	s	WASHER,POLYETHYLENE,DIA.1.2
323	3-611-362-01	o	GEAR B,ME
324	3-611-363-01	o	GEAR C,ME
325	3-611-370-02	o	GEAR DRIVE,ME
326	3-611-389-01	o	GEAR D,ME
327	3-611-390-01	o	SPRING ,CR ARM
328	3-611-398-04	o	HOUSING,GEAR BOX
329	3-611-401-06	o	LIMITER,PRESS PINCH
330	3-611-439-01	o	BELT,TIMING
331	3-611-445-03	o	CLAW,UP AND DOWN
332	3-611-453-02	o	BRACKET MOTOR
333	3-611-462-06	o	LIMITER,DRAWER T
334	3-611-469-05	o	HOLDER,SENSOR
335	3-611-492-01	s	PULLEY,LOADING MOTOR
336	3-611-510-01	s	SPRING,PINCH LIMITTER
337	3-611-529-02	s	SPRING,LIMITER, T DRAWER
338	3-611-530-01	o	GEAR,GB(4)
339	3-611-657-01	o	ROLLER,LIMITER
340	3-612-775-01	o	STOPPER
341	3-612-778-01	s	SPRONG,TORSION
342	3-612-782-02	o	SHAFT,T3
343	3-612-783-01	o	SPRING(T3),LEAF
344	3-612-786-01	s	SPRING,COMPRESSION
345	3-612-787-03	s	FRANGE,T3
346	3-612-806-02	o	GUARD,TAPE
347	3-613-709-01	s	SPRING,EXTENSION
348	3-615-320-01	o	CAP,CR
349	3-669-465-01	s	WASHER(1.5), STOPPER
350	3-680-914-01	o	CASE,SHIELD
351	3-681-768-01	o	NUT,S3
352	3-698-829-01	s	NUT,NYLON
353	3-701-437-01	s	WASHER PLASTIC (2.1X0.14)
354	3-729-011-01	s	SPRING, COMPRESSION(COIL)
355	3-729-013-31	s	HEAD (+P1.4X3), WASHER
356	3-729-013-41	s	SCREW,WASHERHEAD(+P)
357	3-729-084-41	s	BOLT (M2X8), HEXAGON HOLE
358	4-631-374-01	s	SPRING, TENSION
359	4-945-386-01	s	SPRING,COMPRESSION
360	7-627-450-78	s	SCREW, PRECISION +K1.7X4
361	7-627-522-28	s	SCREW, PRECISION +P1.7X2
362	8-835-440-01	s	MOTOR(DN20-Q7Z1B) DC 10W UNDER
363	7-600-004-24	s	TAPE, ACETATE(No.5) 12X20M BLK (USED 10cm)

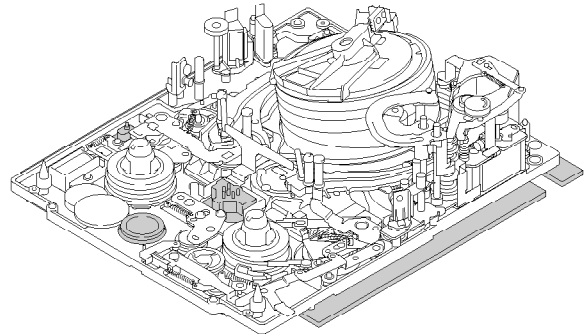


Bottom side of mechanical deck

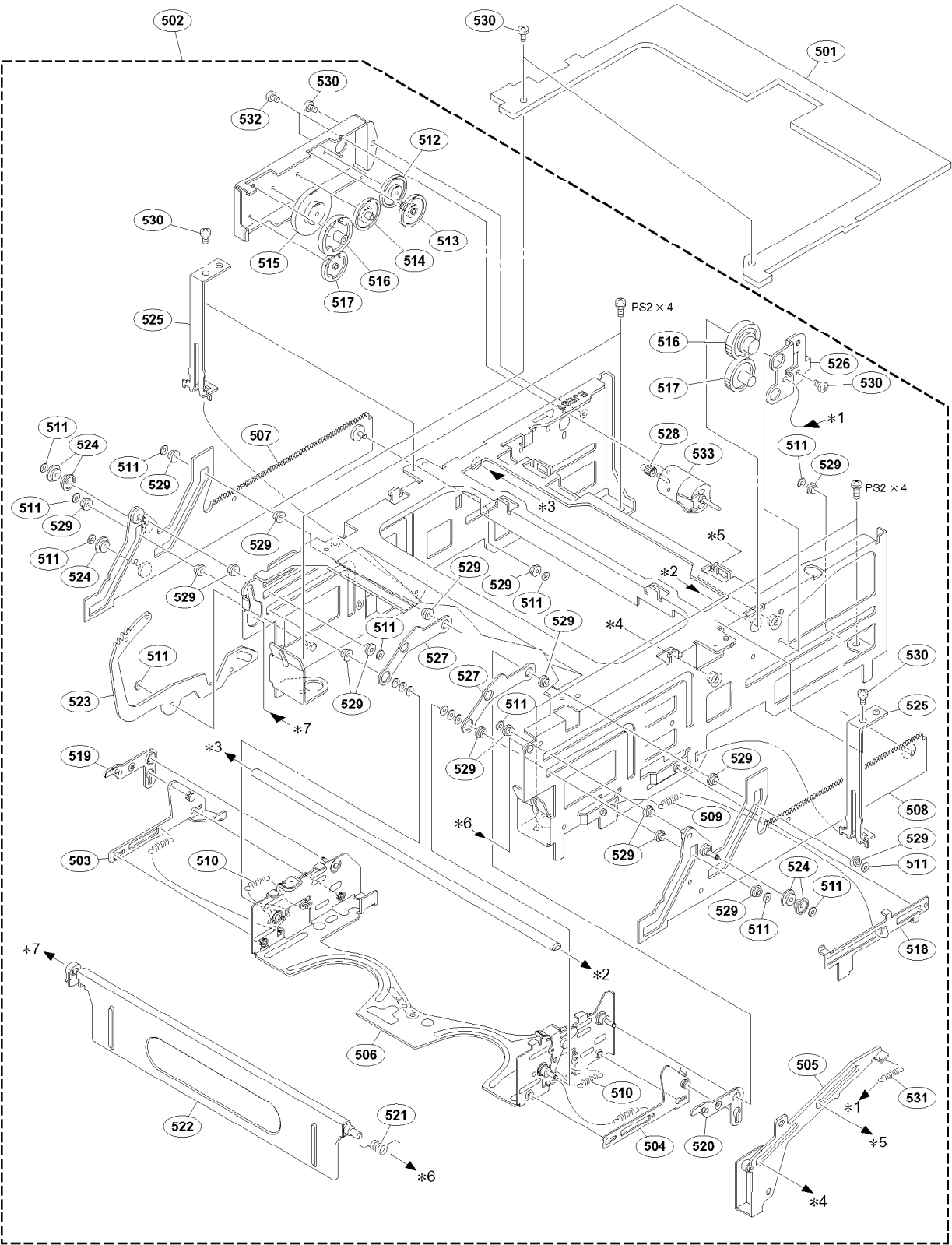


Bottom side of mechanical deck

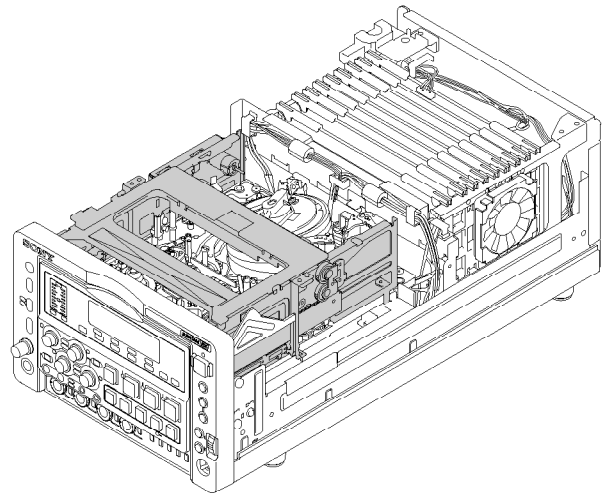
No.	Part No.	SP	Description
401	A-8278-724-A	o	HOLDER ASSY SENSOR(TD)
402	A-8278-854-A	o	SWITCH ASSY, REC INHI
403	A-8323-004-A	o	MOUNTED CIRCUIT BOARD, SV-194A
404	2-640-315-01	o	SCREW(M2X5), SMALL
405	3-611-385-01	o	PIN, DETECTION
406	3-611-405-01	o	SPRING, COMPRESSION
407	3-611-544-01	s	BELT, TIMMING
408	3-612-505-02	o	SHEET, SV
409	3-612-820-03	o	HOLDER, SV SENSOR
410	3-729-013-41	s	SCREW, WASHERHEAD(+P)
411	4-963-480-01	s	SPRING(DOOR), COMPRESSION
412	8-835-589-01	s	MOTOR, DC SRV11A/J-N
413	8-835-590-01	s	MOTOR, DC SCV-0703A/J-N



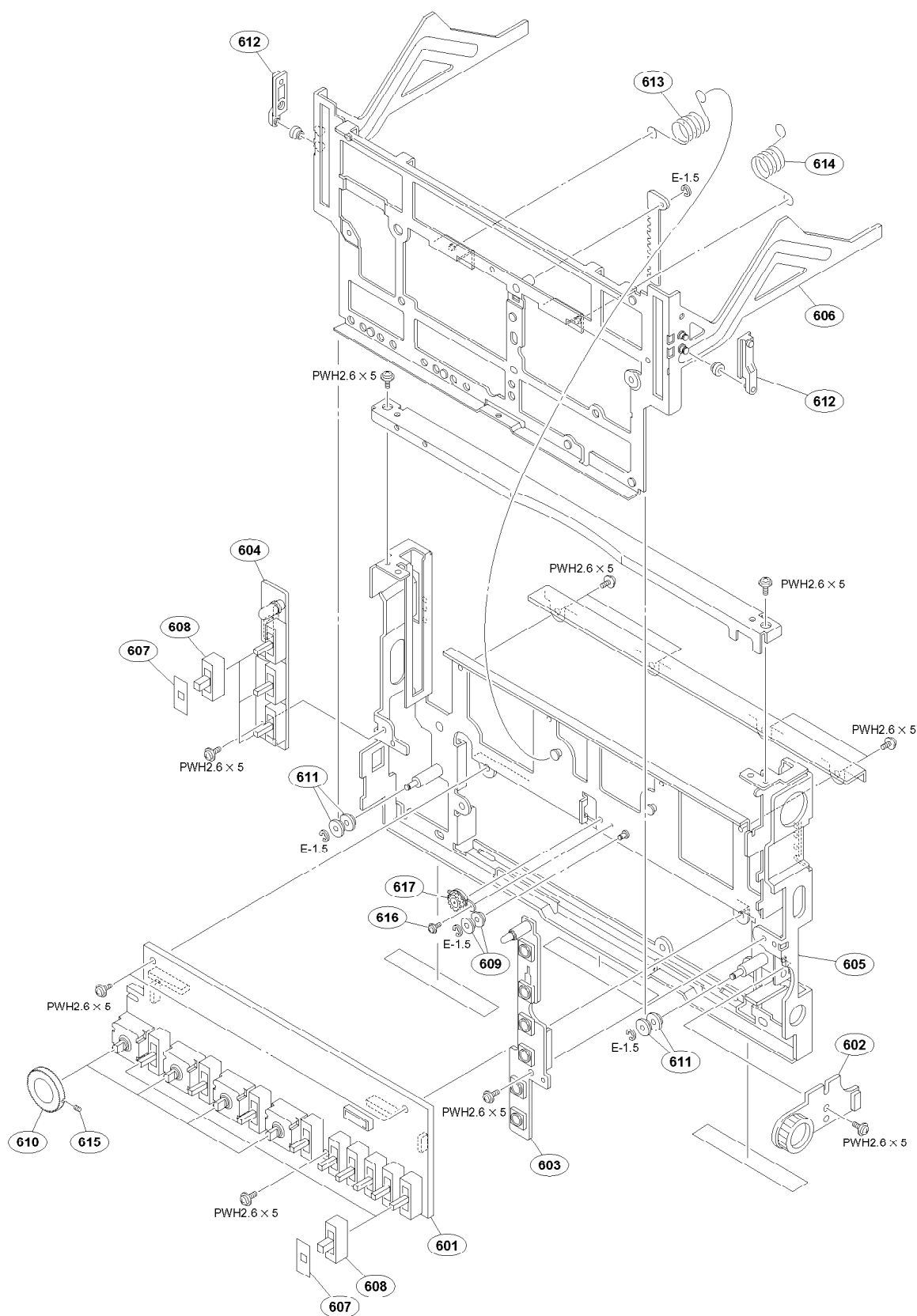
Cassette compartment



No.	Part No.	SP	Description
501	A-8322-972-A	o	MOUNTED CIRCUIT BOARD, SE-529
502	A-8323-436-C	s	COMPARTMENT SUB ASSY, CASSETTE
503	X-3605-583-3	o	LEVER (L) ASSY, IN
504	X-3605-584-1	o	LEVER (R) ASSY, IN
505	X-3605-587-1	o	LID OPENER ASSY
506	X-3605-590-4	o	ASSY, HOLDER
507	X-3605-591-3	o	RACK ASSY, (L)
508	X-3605-592-3	o	RACK ASSY, (R)
509	3-307-378-00	s	SPRING, TENSION
510	3-319-686-01	s	SPRING, TENSION
511	3-559-408-11	s	WASHER, POLYETHYLENE, DIA.1.2
512	3-623-166-01	o	GEAR (1)
513	3-623-167-01	o	GEAR (2)
514	3-623-168-01	o	GEAR (3)
515	3-623-169-02	o	GEAR (4)
516	3-623-170-03	o	GEAR (5)
517	3-623-171-01	o	GEAR (6)
518	3-623-173-01	o	SHUTTER
519	3-623-176-03	o	PLATE, LIGHT INTERCEPTION (L)
520	3-623-177-03	o	PLATE, LIGHT INTERCEPTION (R)
521	3-623-191-02	s	SPRING, TORSION
522	3-623-195-02	o	DOOR
523	3-623-206-02	o	ARM, LIFT
524	3-623-207-02	o	ROLLER (B)
525	3-623-225-01	o	GUIDE, S SHASSIS
526	3-623-229-01	o	STOPPER
527	3-623-239-02	o	RETAINER, SHUTTER
528	3-679-748-01	s	PINION
529	3-680-032-11	o	ROLLER (A)
530	3-729-076-11	s	SCREW +B2X4
531	4-613-114-01	s	SPRING, TENSION
532	7-627-552-28	s	SCREW, PRECISION +P1.7X2
533	8-835-440-01	s	MOTOR (DN20-Q7Z1B) DC 10W UNDER

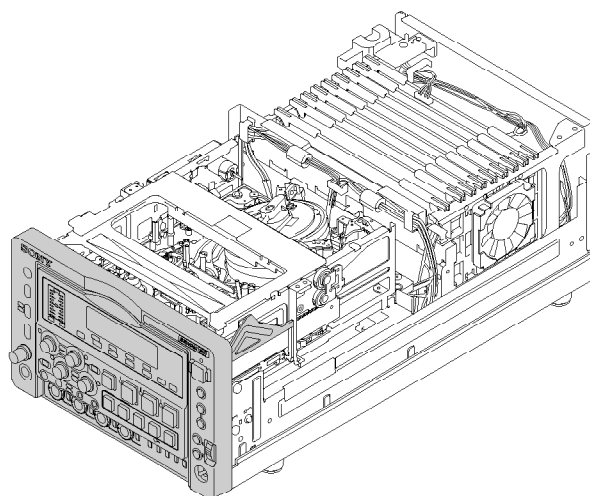


Front panel assembly (1/2)

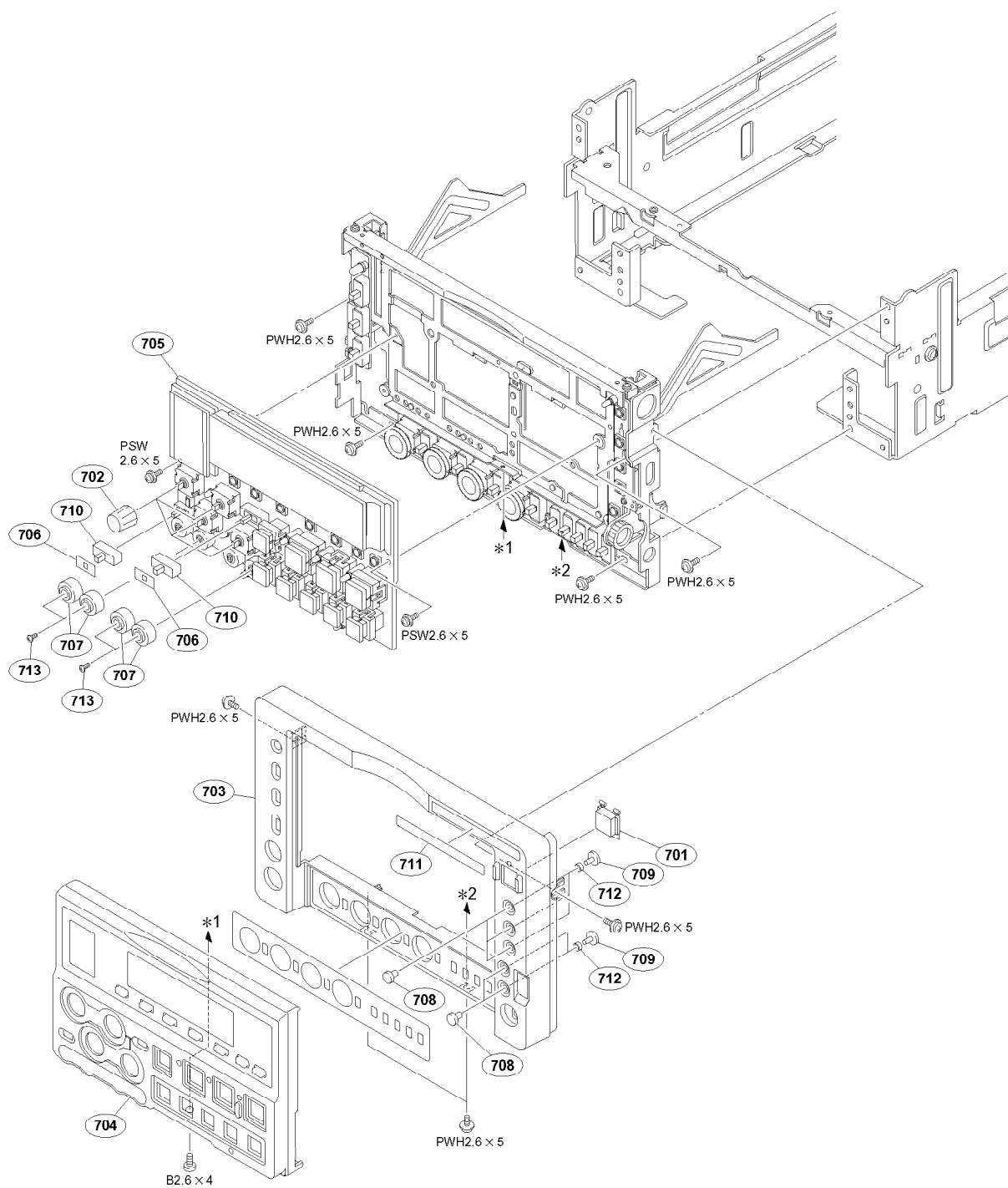


Front panel assembly (1/2)

No.	Part No.	SP Description
601	A-8322-899-A	o MOUNTED CIRCUIT BOARD, SW-21
602	A-8322-969-A	o MOUNTED CIRCUIT BOARD, CT-209
603	A-8322-973-A	o MOUNTED CIRCUIT BOARD, SW-22
604	A-8322-974-A	o MOUNTED CIRCUIT BOARD, SW-23
605	X-3605-598-3	o PLATE ASSY,FRONT
606	X-3605-599-2	o PLATE ASSY,SLIDE
607	2-124-654-01	o SHEET,SWITCH
608	3-167-445-03	s KNOB, SWITCH
609	3-169-471-01	s ROLLER(B),C
610	3-611-740-01	o KNOB(2),VR
611	3-623-243-01	o GUIDE
612	3-623-347-01	o ROLLER SLIDE2
613	3-623-348-01	o SPRING,TORSION
614	3-623-349-01	o SPRING,TORSION
615	3-623-696-01	s SCREW,HEXAGON 2X3
616	3-729-013-41	s SCREW,WASHERHEAD(+P)
617	3-953-235-31	s DAMPER, OIL

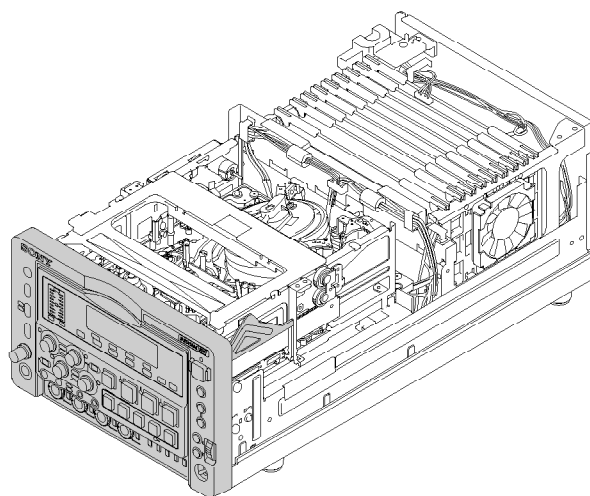


Front panel assembly (2/2)

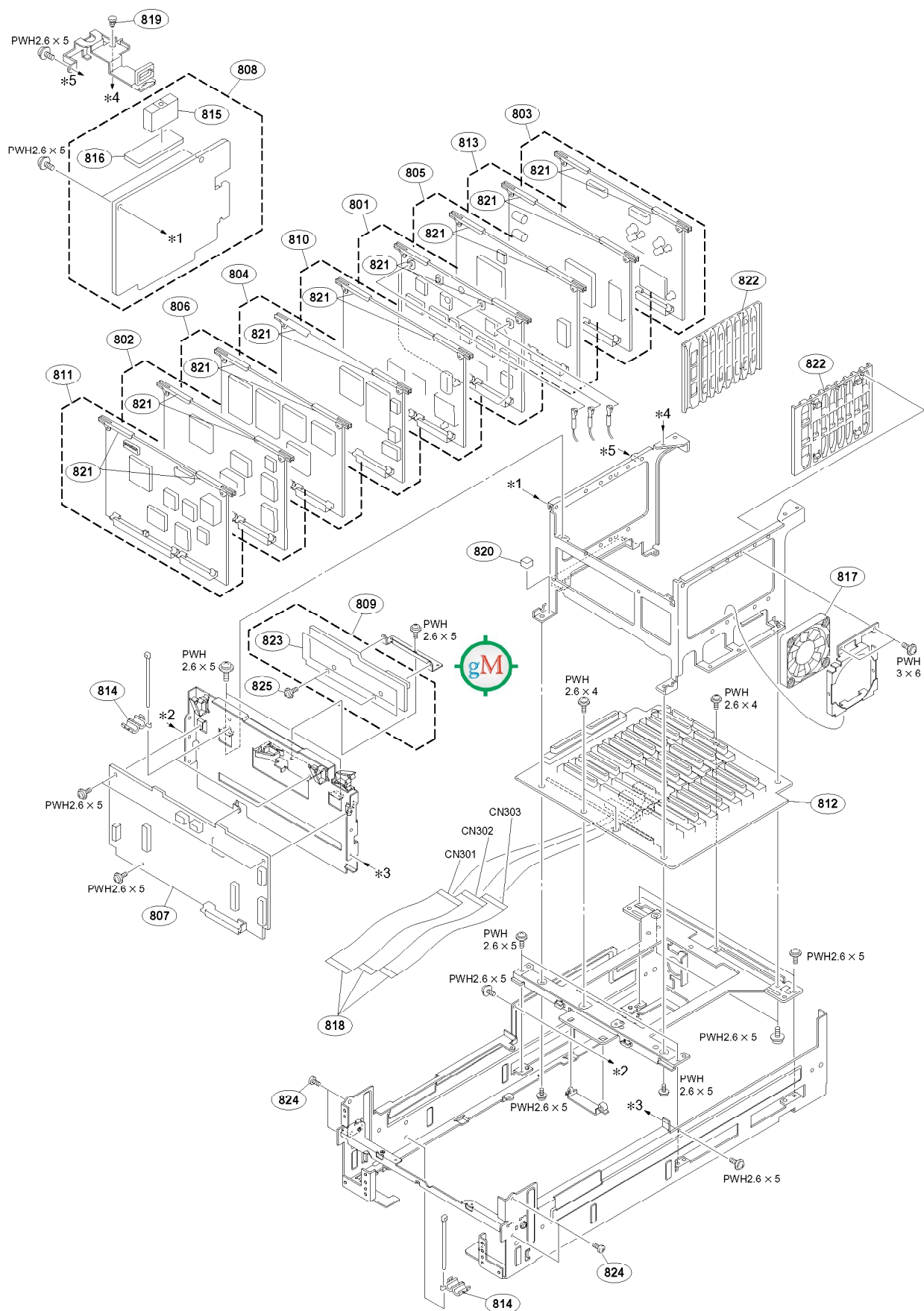


Front panel assembly (2/2)

No.	Part No.	SP Description
701	X-3166-137-1	o BUTTON ASSY (EJECT)
702	X-3167-563-1	s KNOB (DIA.3) ASSY, VOLUME
703	X-3605-585-2	o FRONT PANEL (SUB) ASSY
704	X-3605-586-5	o SLIDE, PANEL ASSY
705	1-803-786-11	s VFD ASSY
706	2-124-654-01	o SHEET, SWITCH
707	3-623-214-01	o KNOB, SUB VR
708	3-623-216-01	s SW, PUSH
709	3-623-217-01	s SW, PUSH
710	3-623-220-01	s KNOB SW
711	3-623-224-01	o LABEL (A28) (for DNW-A28)
	3-623-233-01	o LABEL (A28P) (for DNW-A28P)
712	3-686-086-01	s CUSHION, BUTTON
713	3-704-244-41	s SCREW, LOCKING +P1.7X3.0

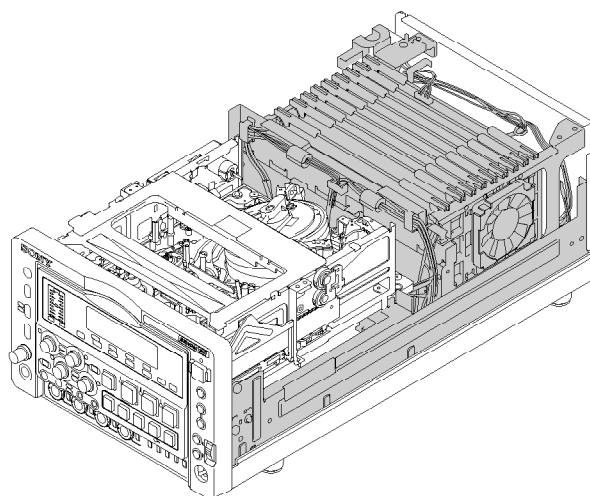


Main chassis and plug-in boards

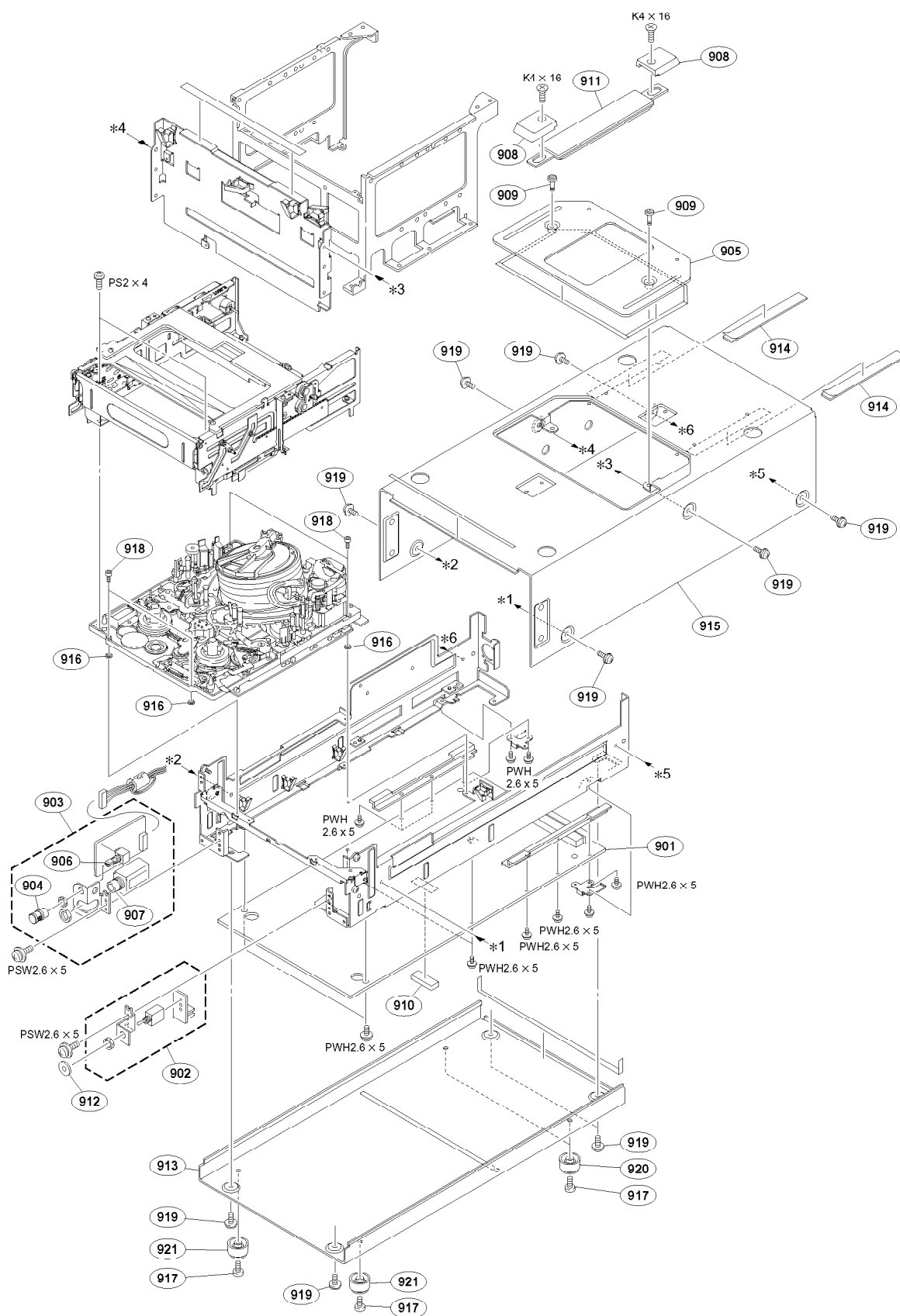


Main chassis and plug-in boards

No.	Part No.	SP Description
801	A-8316-672-A	s MOUNTED CIRCUIT BOARD, SDI-23
802	A-8316-680-A	o MOUNTED CIRCUIT BOARD, SY-260
803	A-8316-684-A	o MOUNTED CIRCUIT BOARD, AU-249
804	A-8316-698-A	o MOUNTED CIRCUIT BOARD, VPR-34
805	A-8316-704-A	o MOUNTED CIRCUIT BOARD, DEC-97
806	A-8316-710-A	o MOUNTED CIRCUIT BOARD, DPR-87
807	A-8316-722-A	o MOUNTED CIRCUIT BOARD, EQ-72
808	A-8316-734-A	s MOUNTED CIRCUIT BOARD, RE-150
809	A-8316-916-A	o MOUNTED CIRCUIT BOARD, PA-218
810	A-8320-125-B	o MOUNTED CIRCUIT BOARD, TG-191
811	A-8322-897-A	o MOUNTED CIRCUIT BOARD, SY-259B
812	A-8323-005-A	o MOUNTED CIRCUIT BOARD, MB-757A
813	A-8323-282-A	o MOUNTED CIRCUIT BOARD, APR-27A
814	1-500-082-11	s CLAMP, SLEEVE FERRITE
815	△ 1-533-647-11	s BREAKER
816	1-667-541-11	o PRINTED WIRING BOARD, RE-158
817	1-763-479-11	s FAN, DC
818	1-777-371-11	o WIRE, FLAT TYPE (30 CORE)
819	3-531-576-01	s RIVET, NYLON
820	3-564-945-01	s CUSHION (B)
821	3-603-737-01	o LEVER, BOARD
822	3-611-508-02	o RAIL, GUIDE, PC BOARD
823	3-613-301-01	o INSULATING SHEET (PA-218)
824	3-725-295-11	s SCREW (+) (B3)
825	3-729-013-41	s SCREW, WASHERHEAD (+P)

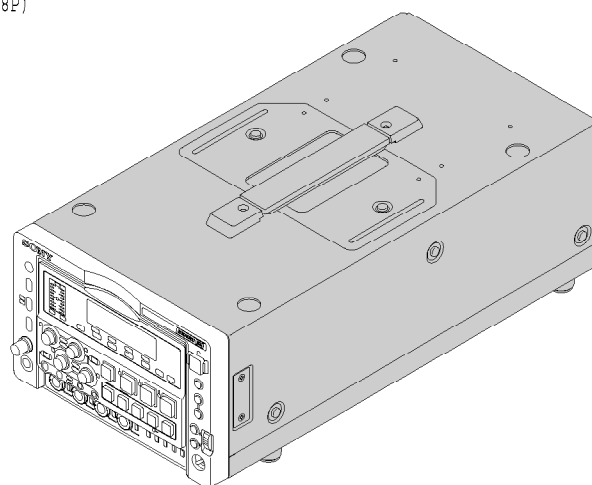


Frame block

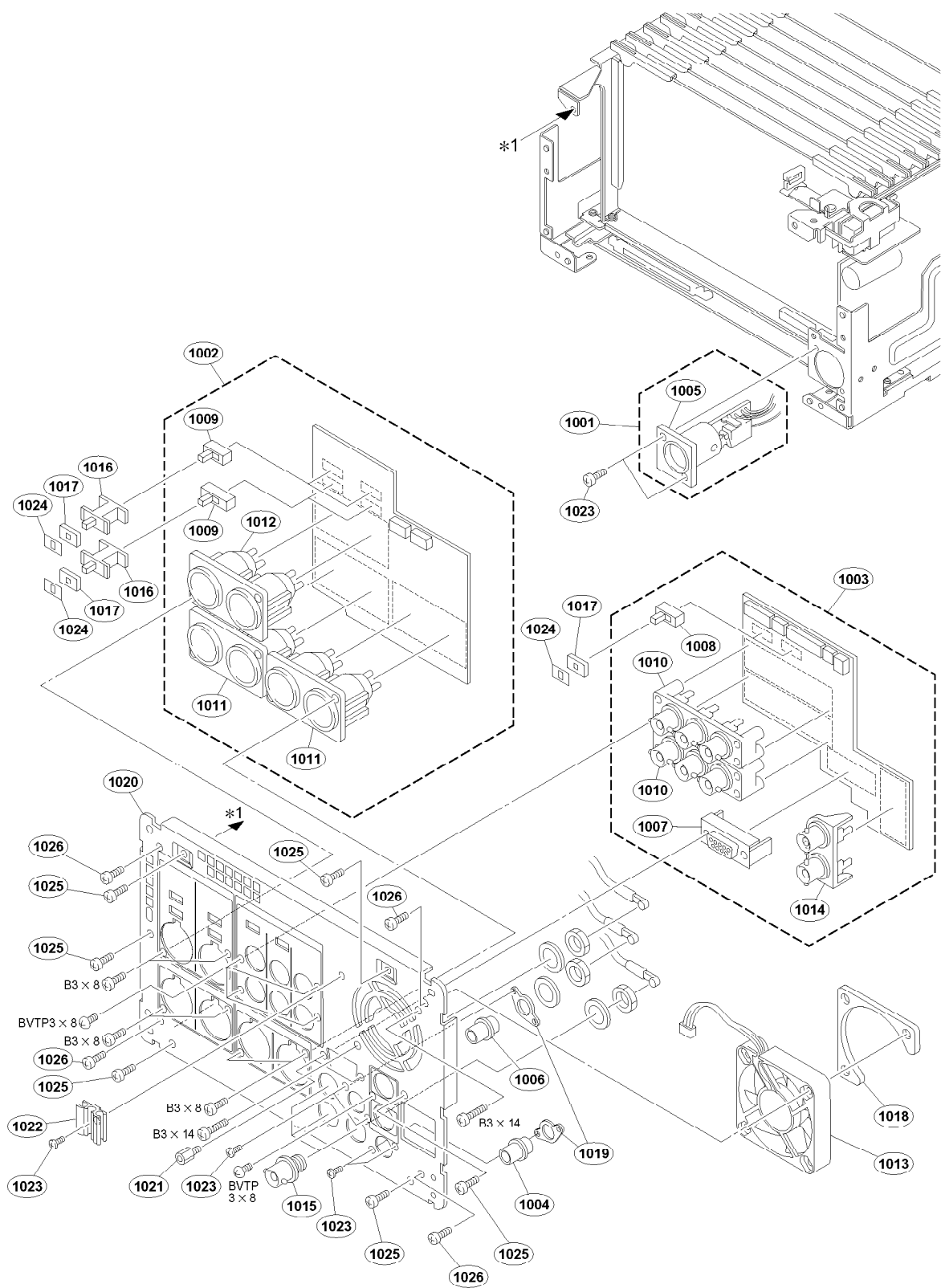


Frame block

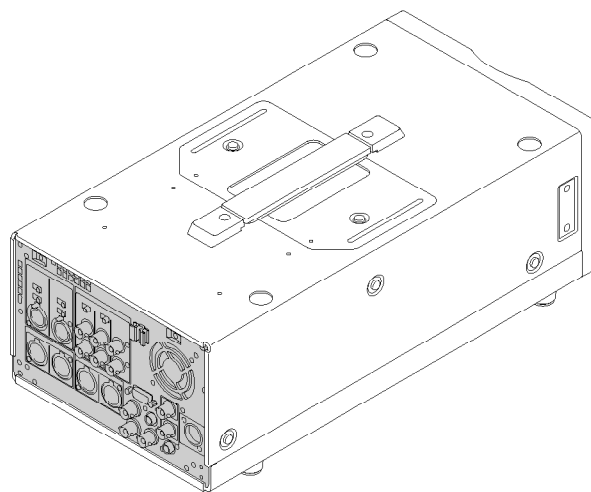
No.	Part No.	SP Description
901	A-8316-714-A	o MOUNTED CIRCUIT BOARD, DM-114 (for DNW-A28)
	A-8316-716-A	o MOUNTED CIRCUIT BOARD, DM-114P (for DNW-A28P)
902	A-8322-971-A	o MOUNTED CIRCUIT BOARD, PSW-72
903	A-8323-002-A	o MOUNTED CIRCUIT BOARD, HP-100
904	X-3167-825-1	o KNOB ASSY (P), VOL
905	X-3605-589-2	o PANEL(TOP) ASSY,SUB
906	1-241-577-11	s RES,CARBON 20K/20K
907	1-565-326-12	s JACK, LARGE TYPE (6.3MM)
908	2-253-306-00	o TABLE,HANDLE
909	3-169-407-02	s SCREW, LID
910	3-302-067-00	o RETAINER,PRINTED CIRCUIT BOARD
911	3-419-372-41	s HANDLE
912	3-603-742-01	o DROP PROTECTION(LIGHT)
913	3-623-201-02	o BOARD,BOTTOM
914	3-623-212-01	o PETAINER,PWB
915	3-623-213-02	o PLATE, TOP
916	3-669-465-01	s WASHER(1.5), STOPPER
917	3-725-295-11	s SCREW (+) (B3)
918	3-729-084-41	s BOLT (M2X8), HEXAGON HOLE
919	4-031-617-22	s SCREW, M3 CASE STOPPER
920	4-861-355-01	o FOOT, M
921	4-861-356-01	o FOOT, F



Connector panel



No.	Part No.	SP	Description
1001	A-8318-279-B	o	MOUNTED CIRCUIT BOARD, DC-97
1002	A-8322-898-A	o	MOUNTED CIRCUIT BOARD, CP-344 (for SY)
	A-8323-001-A	o	MOUNTED CIRCUIT BOARD, CP-344A (for J)
1003	A-8323-195-A	o	MOUNTED CIRCUIT BOARD, CP-354
1004	1-561-233-21	s	RECEPTACLE, FEMALE; 6P
1005	1-564-603-11	s	CONNECTOR (WITH DC SW) 4P
1006	1-565-072-11	s	CONNECTOR (RF), ROUND
1007	1-568-676-11	o	CONNECTOR, D-SUB 9P
1008	1-570-157-51	s	SWITCH, SLIDE (1-1-3)
1009	1-572-042-11	s	SWITCH, SLIDE (2-4-3)
1010	1-573-584-11	s	CONNECTOR, BNC (RECEPTACLE)
1011	1-750-785-21	s	CONNECTOR (XLR TYPE) 3P (for SY)
	1-750-786-21	s	CONNECTOR (XLR TYPE) 3P (for J)
1012	1 750 785 21	s	CONNECTOR (XLR TYPE) 3P (for J)
	1-750-786-21	s	CONNECTOR (XLR TYPE) 3P (for SY)
1013	1-763-041-11	s	FAN, DC (52 SQUARE)
1014	1-766-788-11	s	CONNECTOR, COAXIAL (BNC TYPE)
1015	1-784-240-11	s	CONVERTER, COAXIAL CONNECTOR
1016	3-171-450-01	o	ADAPTOR, SW
1017	3-173-384-01	o	SPACER, ORNAMENTAL PLATE
1018	3-611-543-01	o	PLATE, NUT
1019	3-611-666-02	o	HOLDER, CONNECTOR
1020	3-623-190-01	o	PANEL (SYM), REAR (for SY)
	3-623-252-01	o	PANEL (J), REAR (for J)
1021	3-673-910-31	s	SCREW, CONNECTOR
1022	3-679-659-03	o	CLAMP, CABLE
1023	3-694-181-01	s	AROCK PRECISION +P2.6 TYPE 1
1024	3-717-394-03	o	PLATE (SMALL), ORNAMENTAL, SW
1025	3-725-295-11	s	SCREW (+) (B3)
1026	3-742-074-11	s	SCREW (3)



Screws and Washers

Part No.	SP Description
7-621-710-48	s SFT SCREW(CONVEX) 2X5
7-621-731-08	s SET-SCREW,HEX 2X2.5
7-621-759-35	s SCREW +PSW 2.6X5
7-621-775-10	s SCREW +B2.6X4
7-623-510-01	s EARTH LUG 4
7-623-923-11	s WASHER PLASTIC (2.6X0.3)
7-624-101-04	s E RING (1.2)
7-624-102-04	s RING, (E,1.5)
7-624-105-04	s RING,E2.3
7-682-265-04	s SCREW +K 4X16
7-682-547-04	s SCREW +B3X6
7-682-551-09	s SCREW +B3X14
7-682-558-04	s SCREW +B4X4
7-682-902-11	s SCREW +PWH 2.6X5
7-685-646-79	s SCREW +BVTP 3X8

1-3. Electrical Parts List

1-3-1. Frame List

Ref. No. or Q'ty	Part No.	SP	Description
3pcs	1-500-082-11	s	CLAMP, SLEEVE FERRITE
FAN1	1-763-041-11	s	FAN, DC (52 SQUARE) "REAR"
FAN2	1-763-479-11	s	FAN, DC "SIDE"
FB1001	1-543-157-11	s	BEAD, FERRITE
H1	8-825-770-74	s	HEAD, FE EF291-21 "FULL ERASE HEAD"
H2	8-825-779-72	s	CTL HEAD, PS244-21D "CTL HEAD"
H3	8-825-920-02	s	HEAD, AUDIO EPS244-2103J "A/T HEAD"
M1	8-835-589-01	s	MOTOR, DC SRV11A/J-N "S-REEL MOTOR"
M2	8-835-440-01	s	MOTOR, DN20-Q7Z1B "THREADING MOTOR"
M3	8-835-590-01	s	MOTOR, DC SCV-0703A/J-N "CAPSTAN MOTOR"
M4	8-835-440-01	s	MOTOR DN20-Q7Z1B "CASSETTE COMPARTMENT MOTOR"
PM1	1-454-334-61	s	SOLENOID, PLUNGER
SE1	1-810-599-11	s	SENSOR, DEW CONDENSATION "DEW SENSOR"
SE2	1-543-316-22	s	HEAD, SENSING (SMALL TYPE) "TAPE TOP SENSOR"
SE3	1-543-316-22	s	HEAD, SENSING (SMALL TYPE) "TAPE END SENSOR"

1-3-2. Cable/Harness List

部品番号が記載されていないハーネスは、サービス部品として登録されていません。
これらは、リストに展開されているコンポーネント部品で補修してください。

Harnesses with no part number are not registered as spare parts.
In need of repair, get components shown in the list and repair using them.

Ref. No. or Q'ty	Part No.	SP	Description
HN001	- - -		(TO CN3/SW-22 BOARD)
1pc	1-565-979-11	o	HOUSING, CONNECTOR 8P
8pcs	1-565-977-11	s	TERMINAL, SOLDERLESS (TO CN3/SW-21 BOARD)
1pc	1-565-979-11	o	HOUSING, CONNECTOR 8P
8pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
HN002	- - -		(TO CN6/VFD ASSEMBLY)
1pc	1-569-621-11	o	HOUSING, CONNECTOR 12P
12pcs	1-766-387-11	o	TERMINAL, SOLDERLESS 1P (TO CN6/SW-21 BOARD)
1pc	1-569-621-11	o	HOUSING, CONNECTOR 12P
12pcs	1-766-387-11	o	TERMINAL, SOLDERLESS 1P
HN003	- - -		(TO CN4/SW-23 BOARD)
1pcs	1-565-978-11	o	HOUSING, CONNECTOR 6P
6pcs	1-565-977-11	s	TERMINAL, SOLDERLESS (TO CN4/SW-21 BOARD)
1pcs	1-565-978-11	o	HOUSING, CONNECTOR 6P
6pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
HN004	- - -		(TO CN5/CT-209 BOARD)
1pc	1-569-619-11	o	HOUSING, CONNECTOR 4P
4pcs	1-565-977-11	s	TERMINAL, SOLDERLESS (TO CN5/SW-21 BOARD)
1pc	1-569-619-11	o	HOUSING, CONNECTOR 4P
4pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
HN005	- - -		(TO CN1/DR-239 BOARD)
1pc	1-580-585-11	o	HOUSING, CONNECTOR 18P
18pcs	1-580-599-11	o	TERMINAL, SOLDERLESS (TO CN1/EQ-72 BOARD)
1pc	1-569-621-11	o	HOUSING, CONNECTOR 12P
12pcs	1-565-977-11	s	TERMINAL, SOLDERLESS (TO CN7/EQ-72 BOARD)
1pc	1-565-978-11	o	HOUSING, CONNECTOR 6P
6pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
HN006	1-958-196-15	o	HARNESS, SUB (SR66-EQ3) (FROM CN1/SR-66 BOARD TO CN3/EQ-72 BOARD)
HN007	1-958-201-15	o	HARNESS, SUB (SV801-EQ4) (FROM CN4/EQ-72 BOARD TO CN801/SV-194A BOARD)
HN008	- - -		(TO CN3/DR-239 BOARD)
1pc	1-565-979-11	o	HOUSING, CONNECTOR 8P
2pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
6pcs	1-766-387-11	o	TERMINAL, SOLDERLESS 1P (TO CN101/SV-194A BOARD)
1pc	1-565-979-11	o	HOUSING, CONNECTOR 8P
2pcs	1-565-977-11	s	TERMINAL, SOLDERLESS
6pcs	1-766-387-11	o	TERMINAL, SOLDERLESS 1P

Ref. No. or Q'ty	Part No.	SP Description
HN009	- - -	(TO CN100/SW 21 BOARD)
1pc	1-778-549-11	o HOUSING, CONNECTOR 20P
17pcs	1-778-554-21	o TERMINAL, SOLDERLESS
	(TO CN201/MB-757A BOARD)	
1pc	1-778-550-11	o HOUSING, CONNECTOR 30P
17pcs	1-778-554-21	o TERMINAL, SOLDERLESS
HN010	- - -	(TO CN901/SV-194A BOARD)
1pc	1-569-621-11	o HOUSING, CONNECTOR 12P
12pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
	(TO CN901/MB-757A BOARD)	
1pc	1-569-621-11	o HOUSING, CONNECTOR 12P
12pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
HN011	- - -	(FROM SENSOR DEW TO CN701/SV-194A BOARD)
2pcs	1-565-977-11	s TERMINAL, SOLDERLESS
1pc	1-569-617-11	o HOUSING, CONNECTOR 2P
HN012	- - -	(TO S-REEL MOTOR)
1pc	1-695-214-11	o HOUSING, CONNECTOR 15P
15pcs	1-695-215-11	o TERMINAL, SOLDERLESS 1P
	(TO CN304/SV-194A BOARD)	
1pc	1-695-214-11	o HOUSING, CONNECTOR 15P
15pcs	1-695-215-11	o TERMINAL, SOLDERLESS 1P
HN013	1-782-281-11	s WIRE, FLAT TYPE (30 CORE)
	(FROM CN301/SV-194A BOARD TO CN301/MB-757A BOARD)	
HN014	- - -	(FROM THREADING MOTOR TO CN304/SV 194A BOARD)
1pc	1-569-617-11	o HOUSING, CONNECTOR 2P
2pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN015	- - -	(FROM TAPE TOP SENSOR TO CN703/SV-194A BOARD)
1pc	1-569-617-11	o HOUSING, CONNECTOR 2P
2pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN016	- - -	(FROM TAPE END SENSOR TO CN704/SV-194A BOARD)
1pc	1-569-617-11	o HOUSING, CONNECTOR 2P
2pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN017	1-953-435-11	o HARNESS, SUB (CAP-HN14)
	(FROM CAPSTAN MOTOR TO CN201/SV-194A BOARD)	
HN018	- - -	(FROM FULL ERASE HEAD, CTL HEAD TO CN401/SV-194A BOARD)
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS
1pc	1-569-619-11	o HOUSING, CONNECTOR 4P
HN019	1-782-950-12	o WIRE, FLAT TYPE (30 CORE)
	(FROM CN302/SV-194A BOARD TO CN302/MB-757A BOARD)	
HN020	1-958-202-11	o HARNESS, SUB (SV705-SR65)
	(FROM CN1/SR-65 BOARD TO CN705/SV-194A BOARD)	
HN021	1-782-952-12	o WIRE, FLAT TYPE (30 CORE)
	(FROM CN303/SV-194A BOARD TO CN303/MB-757A BOARD)	
HN022	1-960-034-11	o HARNESS, SUB (SV1-SE1)
	(FROM CN1/SV-194A BOARD TO CN1/SE-529 BOARD)	
HN023	- - -	(FROM H3, A/T HEAD TO CN601/SV-194A BOARD)
1pc	1-569-620-11	o HOUSING, CONNECTOR 5P
5pcs	1-565-977-11	s TERMINAL, SOLDERLESS

Ref. No. or Q'ty	Part No.	SP Description
HN024	- - -	(FROM H3, A/T HEAD TO CN1/PA 218 BOARD)
1pc	1-565-978-11	o HOUSING, CONNECTOR 6P
6pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN025	- - -	(TO CN204/PA-218 BOARD)
1pc	1-569-519-11	o HOUSING, CONNECTOR 7P
5pcs	1-565-977-11	s TERMINAL, SOLDERLESS
2pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
	(TO CN204/MB-757A BOARD)	
1pc	1-569-519-11	o HOUSING, CONNECTOR 7P
5pcs	1-565-977-11	s TERMINAL, SOLDERLESS
2pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
HN026	- - -	(FROM CN602/SV-194A BOARD)
1pc	1-569-619-11	s HOUSING, CONNECTOR 4P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS
	(TO CN602/PA-218 BOARD)	
1pc	1-569-619-11	s HOUSING, CONNECTOR 4P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN027	- - -	(TO CN1/AU-249 BOARD)
1pc	1-565-978-11	o HOUSING, CONNECTOR 6P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS
2pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
	(TO CN1/CP-344 BOARD)	
1pc	1-569-520-11	o HOUSING, CONNECTOR 10P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS
2pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
HN028	1-958-199-13	o HARNESS, SUB (HP8 MB8)
	(TO CN8/HP-100 BOARD)	
1pc	1-569-621-11	o HOUSING, CONNECTOR 12P
12pcs	1-565-977-11	s TERMINAL, SOLDERLESS
	(TO CN8/MB-757A BOARD)	
1pc	1-569-621-11	o HOUSING, CONNECTOR 12P
12pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN029	1-958-203-11	o HARNESS, SUB (CP600-MB600)
	(FROM CN600/MB-757A TO CN600/CP-344 BOARD)	
HN030	- - -	(TO CN601/MB-757A BOARD)
1pc	1-569-621-11	o HOUSING, CONNECTOR 12P
8pcs	1-565-977-11	s TERMINAL, SOLDERLESS
4pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
	(TO CN601/CP-344 BOARD)	
1pc	1-569-621-11	o HOUSING, CONNECTOR 12P
8pcs	1-565-977-11	s TERMINAL, SOLDERLESS
4pcs	1-766-387-11	o TERMINAL, SOLDERLESS 1P
HN031	- - -	(TO CN1/MB-757A BOARD)
1pcs	1-565-977-11	o HOUSING, CONNECTOR 2P
2pcs	1-569-617-11	s TERMINAL, SOLDERLESS
	(TO CN1/PSW-72 BOARD)	
1pcs	1-565-977-11	o HOUSING, CONNECTOR 2P
2pcs	1-569-617-11	s TERMINAL, SOLDERLESS
HN032	- - -	(TO CN700/MB-757A BOARD)
1pc	1-569-520-11	o HOUSING, CONNECTOR 10P
10pcs	1-565-977-11	s TERMINAL, SOLDERLESS
	(TO CN700/CP-354 BOARD)	
1pc	1-569-520-11	o HOUSING, CONNECTOR 10P
10pcs	1-565-977-11	s TERMINAL, SOLDERLESS

Ref. No. or Q'ty	Part No.	SP Description
HN033	1-958-198-12	o HARNESS, SUB (CP701-MB701) (FROM CN701/MB 757A TO CN701/CP 354 BOARD)
HN034	1-958-193-14	o HARNESS, SUB (CP702-MB702) (FROM CN702/MB-757A TO CN702/CP-354 BOARD)
HN035	- - -	(FROM CN704/MB-757A BOARD)
1pc	1-569-620-11	o HOUSING, CONNECTOR 5P
5pcs	1-565-977-11	s TERMINAL, SOLDERLESS (TO CN100/AUX)
1pc	1-561-233-21	s CONNECTOR, CIRCULAR 6P, FEMALE
HN036	- - -	(TO CN3/RE-150 BOARD)
1pc	1-562-252-11	o HOUSING, CONNECTOR 2P
2pcs	1-562-260-11	o CONTACT, SOCKET (TO CN1/CP-354 BOARD)
1pc	1-562-252-11	o HOUSING, CONNECTOR 2P
2pcs	1-562-260-11	o CONTACT, SOCKET
HN037	- - -	(FROM CN2/RE-150 TO DC-97 BOARD)
1pc	1-580-696-11	o HOUSING, CONNECTOR 9P
8pcs	1-562-260-11	o CONTACT, SOCKET
HN038	- - -	(TO CN4/SY-259B BOARD)
1pc	1-565-978-11	o HOUSING, CONNECTOR 6P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS (TO CN2/CP-344 BOARD)
1pc	1-565-978-11	o HOUSING, CONNECTOR 6P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN039	1-790-085-11	s CABLE ASSEMBLY, COAXIAL (FROM CN100/SY-259B BOARD TO CN1002/SDI IN)
HN040	1-790-086-11	s CABLE ASSEMBLY, COAXIAL (FROM CN700/SY-259B BOARD TO CN1003/SDI OUT 1)
HN041	1-790-087-11	s CABLE ASSEMBLY, COAXIAL (FROM CN701/SY-259B BOARD TO CN1004/SDI OUT 2)
HN042	- - -	(TO CN301/CP-354 BOARD)
1pc	1-562-252-11	o HOUSING, CONNECTOR 2P
2pcs	1-562-260-11	o CONTACT, SOCKET (TO CN1001/DC OUT 12V)
1pc	1-565-072-11	s CONNECTOR, CIRCULAR 4P, FEMALE
HN043	- - -	(TO CN1/DM-114/114P BOARD)
1pc	1-569-619-11	s HOUSING, CONNECTOR 4P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS (TO CN102/EQ-72 BOARD)
1pc	1-569-619-11	s HOUSING, CONNECTOR 4P
4pcs	1-565-977-11	s TERMINAL, SOLDERLESS
HN044	- - -	(TO CN706/SV-194A BOARD)
1pc	1-569-196-31	o HOUSING, CONNECTOR 3P
3pcs	1-569-193-11	o TERMINAL, SOLDERLESS (TO PLUNGER)
HN045	- - -	(TO CN2/SE-529 BOARD)
1pc	1-569-195-31	o HOUSING, CONNECTOR 2P
2pcs	1-569-193-11	o TERMINAL, SOLDERLESS (TO CASSETTE COMPARTMENT MOTOR)

Ref. No. or Q'ty	Part No.	SP Description
HN046	- - -	(TO CN3/CP 354 BOARD)
1pc	1-569-196-31	o HOUSING, CONNECTOR 3P
3pcs	1-569-193-11	o TERMINAL, SOLDERLESS (TO REAR FAN)
HN047	- - -	(TO CN4/CP-354 BOARD)
1pc	1-569-196-31	o HOUSING, CONNECTOR 3P
3pcs	1-569-193-11	o TERMINAL, SOLDERLESS (TO SIDE FAN)

1-3-3. External Connectors List

Ref. No. or Q'ty	Part No.	SP Description
AUDIO INPUT CH-1/CH-2		
	1-750-785-21 s	CONNECTOR DUAL XLR 3P, MALE (For J)
	1-750-786-21 s	CONNECTOR DUAL XLR 3P, FEMALE (For SY)
AUDIO OUTPUT 1/3 / 2/4		
	1-750-785-21 s	CONNECTOR DUAL XLR 3P, MALE (For SY)
	1-750-786-21 s	CONNECTOR DUAL XLR 3P, FEMALE (For J)
AUX		
	1-561-233-21 s	CONNECTOR, CIRCULAR 6P, FEMALE
DC IN		
	1-564-603-11 s	CONNECTOR WITH DC SW, 4P, MALE
DC OUT		
	1-565-072-11 s	CONNECTOR, CIRCULAR 4P, FEMALE
MONITOR OUTPUT R/L		
	1-750-785-21 s	CONNECTOR DUAL XLR 3P, MALE (For SY)
	1-750-786-21 s	CONNECTOR DUAL XLR 3P, FEMALE (For J)
REMOTE		
	1-568-676-11 o	CONNECTOR, D-SUB 9P, FEMALE
SDI IN		
	1-784-240-11 s	CONVERT CONNECTOR, COAXIAL
SDI OUT 1		
	1-784-240-11 s	CONVERT CONNECTOR, COAXIAL
SDI OUT 2		
	1-784-240-11 s	CONVERT CONNECTOR, COAXIAL
LTC IN/LTC OUT		
	1-766-788-11 s	CONNECTOR, 2-BNC, FEMALE
VIDEO REF.IN/VIDEO INPUT/VIDEO OUTPUT 1		
	1-573-584-11 s	CONNECTOR, 3-BNC, FEMALE
VIDEO REF.IN (THRU-OUT)/VIDEO INPUT (THRU-OUT)/ VIDEO OUTPUT 2 (SUPER)		
	1-573-584-11 s	CONNECTOR, 3-BNC, FEMALE



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APR-27A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8323-282-A	O	MOUNTED CIRCUIT BOARD, APR-27A
2pcs	3-603-737-01	O	LEVER,BOARD
5pcs	3-729-061-01	S	SCREW (M2X4.5) (TYPE 1) (STEEL)
C101	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C200	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C201	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C202	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C203	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C204	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C205	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C302	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C303	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C304	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C305	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C306	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C307	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C402	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C403	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C404	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C405	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C406	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C407	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C502	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C503	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C504	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C505	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C506	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C507	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C602	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C603	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C604	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C605	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C606	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C607	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C701	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C702	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C703	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C704	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C705	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C706	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C707	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C708	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C709	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C710	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C711	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C712	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C713	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C714	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C715	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C716	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C717	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C801	1-162-927-11	S	CAPACITOR,CERAMIC 100PF/50V CH
C802	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C803	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C804	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C805	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C806	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C807	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V

(APR-27A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C808	1-162-915-11	S	CAPACITOR,CERAMIC 10PF/50V CH
C809	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C810	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C900	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C901	1-126-394-11	S	CAPACITOR ELECT 10MF/16V(CHIP)
C902	1-126-394-11	S	CAPACITOR ELECT 10MF/16V(CHIP)
C903	1-126-391-11	S	CAPACITOR ELECT 47MF/6.3V(105)
C904	1-126-391-11	S	CAPACITOR ELECT 47MF/6.3V(105)
C905	1-126-391-11	S	CAPACITOR ELECT 47MF/6.3V(105)
C906	1-126-396-11	S	CAPACITOR ELECT 47MF/16V(CHIP)
C907	1-126-395-11	S	CAPACITOR ELECT 22MF/16V(CHIP)
C908	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C909	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C910	1-107-686-11	S	CAPACITOR,CHIP ELECT 4.7MF/16V
C911	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C912	1-164-315-11	S	CAPACITOR,CERAMIC 470PF/50V CH
C913	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C914	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C915	1-164-227-11	S	CAPACITOR,CERAMIC 0.022MF/25V
C916	1-117-229-11	S	CAPACITOR, (SMD) 10MF/10V
C917	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C918	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C919	1-113-577-11	S	CAPACITOR,ELECT 47MF/16V
C920	1-113-577-11	S	CAPACITOR,ELECT 47MF/16V
C921	1-107-686-11	S	CAPACITOR,CHIP ELECT 4.7MF/16V
C922	1-107-686-11	S	CAPACITOR,CHIP ELECT 4.7MF/16V
C923	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C924	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C925	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C926	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C928	1-107-826-11	S	CAPACITOR,CHIP CERAMIC 0.1MF
C929	1-162-964-11	S	CAPACITOR,CERAMIC 1000PF/50V B
C930	1-117-229-11	S	CAPACITOR, (SMD) 10MF/10V
C931	1-117-229-11	S	CAPACITOR, (SMD) 10MF/10V
C1301	1-115-419-11	S	CAPACITOR,CHIP CERAMIC3300PF
C1401	1-115-419-11	S	CAPACITOR,CHIP CERAMIC3300PF
C1501	1-115-419-11	S	CAPACITOR,CHIP CERAMIC3300PF
C1601	1-115-419-11	S	CAPACITOR,CHIP CERAMIC3300PF
CN82	1-695-453-11	S	CONNECTOR,BOARD TO BOARD 50P
D900	8-719-938-75	S	DIODE SB05-05CP (RECTI)
D901	8-719-938-75	S	DIODE SB05-05CP (RECTI)
D902	8-719-404-35	S	DIODE MA141WK
D903	8-719-157-36	S	DIODE RD6.8M-B
D904	8-719-404-35	S	DIODE MA141WK
D905	8-719-210-39	S	DIODE EC10QS04
D906	8-719-210-39	S	DIODE EC10QS04
IC101	8-759-524-28	S	IC TC74VHC245FT(EL)
IC200	8-759-524-04	S	IC TC74VHC125FT (EL)
IC201	8-759-391-30	S	IC 74LVX3245QSCX
IC202	8-759-391-30	S	IC 74LVX3245QSCX
IC203	8-759-082-58	S	IC TC7W08FU
IC301	8-759-440-23	S	IC DSPB56007FJ66
IC302	8-759-526-41	S	IC MSM514400DL-60SJDR1
IC401	8-759-440-23	S	IC DSPB56007FJ66
IC402	8-759-526-41	S	IC MSM514400DL-60SJDR1
IC501	8-759-440-23	S	IC DSPB56007FJ66
IC502	8-759-526-41	S	IC MSM514400DL-60SJDR1

(APR-27A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC601	8-759-440-23	s	IC DSPB56007FJ66
IC602	8-759-526-41	s	IC MSM514400DL-60SJDR1
IC701	8-759-524-28	s	IC TC74VHC245FT (EL)
IC702	8-759-524-04	s	IC TC74VHC125FT (EL)
IC703	8-759-177-76	s	IC CXD8811AQ
IC704	8-759-482-24	s	IC IDT71V016S20Y-TL
IC705	8-759-253-97	s	IC CXD8859AQ
IC706	8-759-447-77	s	IC TC7WH74FU (TR12R)
IC707	8-759-524-28	s	IC TC74VHC245FT (EL)
IC708	8-759-524-04	s	IC TC74VHC125FT (EL)
IC801	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC802	8-759-524-28	s	IC TC74VHC245FT (EL)
IC803	8-759-386-25	s	IC 74LCX245MTCK
IC804	8-759-524-28	s	IC TC74VHC245FT (EL)
IC805	8-759-524-07	s	IC TC74VHC138FT (EL)
IC806	8-752-381-56	s	IC CXD1095AR
IC807	8-752-381-56	s	IC CXD1095AR
IC808	8-759-491-51	s	IC TC74VHCT245AFT (EL)
IC809	8-759-524-50	s	IC TC74VHC541FT (EL)
IC900	8-729-044-32	s	TRANSISTOR SI9433DY-T1
IC901	8-759-542-91	s	IC S-80840ANUP-ED4-T2
IC902	8-729-025-23	s	TRANSISTOR SI9925DY-T1
IC903	8-759-260-57	s	IC TL1451ACPW-E05
IC904	8-759-058-62	s	IC TC7S08FU-TE85R
IC915	8-729-045-28	s	TRANSISTOR SI4532DY-T1
L901	1-409-579-11	s	COIL, CHOKE 8.2UH
L902	1 409 579 11	s	COIL, CHOKE 8.2UH
L903	1-409-579-11	s	COIL, CHOKE 8.2UH
L904	1-409-579-11	s	COIL, CHOKE 8.2UH
L906	1-409-722-11	s	COIL, CHOKE 220UH
L907	1-409-722-11	s	COIL, CHOKE 220UH
Q8	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q9	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q900	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q901	8-729-118-56	s	FET 2SK852-X2
Q902	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q903	8-729-028-73	s	TRANSISTOR DTA114EUA-T106
Q904	8-729-117-32	s	TRANSISTOR 2SC4177
Q905	8-729-117-32	s	TRANSISTOR 2SC4177
Q906	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q907	8-729-117-32	s	TRANSISTOR 2SC4177
Q908	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q909	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q911	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q912	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q913	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q914	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q915	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q916	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q917	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q918	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q919	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q920	8-729-117-32	s	TRANSISTOR 2SC4177
Q921	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
R17	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R18	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R200	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R201	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R202	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R203	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R204	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R205	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R206	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R207	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R210	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R304	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R305	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R401	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R402	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R403	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R404	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R405	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R501	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R504	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R505	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R601	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R602	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R603	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R604	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R605	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R700	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R701	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R702	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R703	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R704	1 216 864 11	s	RESISTOR,CHIP 0 1/16W (1608)
R705	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R706	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R707	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R708	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R709	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R710	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R711	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R712	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R713	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R714	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R715	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R716	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R717	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R718	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R719	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R720	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R721	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R722	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R723	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R724	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R725	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R726	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R727	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R728	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R729	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R800	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R801	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R802	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R803	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R804	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R900	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R901	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R902	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R904	1-218-744-11	s RESISTOR,METAL 150K 1/16
R905	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R907	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R908	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R909	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R910	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R911	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R912	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R913	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R914	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R915	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R916	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R917	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R918	1-218-708-11	s RESISTOR,CHIP 3.6K 1/16W(1608)
R919	1-218-703-11	s RESISTOR,METAL 3.0K 1/16(1608)
R920	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R921	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R922	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R923	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R924	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R925	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R926	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R927	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R928	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R929	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R932	1 218 732 11	s RESISTOR,CHIP 47K 1/16W(1608)
R934	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R935	1-218-752-11	s RESISTOR,CHIP 330K 1/16W(1608)
R936	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R937	1-218-744-11	s RESISTOR,METAL 150K 1/16
R938	1-218-752-11	s RESISTOR,CHIP 330K 1/16W(1608)
R939	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R940	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R942	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R943	1-216-658-11	s RESISTOR,CHIP 2.0K 1/10W(2012)
R944	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R945	1-216-658-11	s RESISTOR,CHIP 2.0K 1/10W(2012)
R946	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
R947	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
RB101	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB102	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB103	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB201	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB202	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB203	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB204	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB301	1-239-389-11	s NETWORK,RESISTOR 47K (1608)
RB302	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB401	1-239-389-11	s NETWORK,RESISTOR 47K (1608)
RB402	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB501	1-239-389-11	s NETWORK,RESISTOR 47K (1608)
RB502	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB601	1-239-389-11	s NETWORK,RESISTOR 47K (1608)
RB602	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB701	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB702	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB801	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB802	1-236-907-11	s RESISTOR BLOCK 100K (1608)

(APR-27A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RB803	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB804	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB805	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB806	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB807	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB808	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB809	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB810	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB811	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB812	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB813	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB814	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB815	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB816	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB817	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB818	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB819	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB821	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB822	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB823	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB824	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB825	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB826	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB827	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB828	1-239-286-11	s RESISTOR,NETWORK 22K (1608)
RB829	1-239-286-11	s RESISTOR,NETWORK 22K (1608)
RB830	1 239 412 11	s NETWORK, RESISTOR 100 (1608)
RB831	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB832	1-239-286-11	s RESISTOR,NETWORK 22K (1608)
RB833	1-239-286-11	s RESISTOR,NETWORK 22K (1608)
RB834	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB835	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB900	1-239-412-11	s NETWORK, RESISTOR 100 (1608)

AU-249 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8316-684-A	o	MOUNTED CIRCUIT BOARD, AU-249
3pcs	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1) (STEEL)
2pcs	3-603-737-01	o	LEVER, BOARD
C1	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C2	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C3	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C4	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C5	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C6	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C7	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C8	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C9	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C10	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C11	1-107-688-11	s	CAPACITOR TANTALUM 1.5MF/25V
C12	1-107-686-11	s	CAPACITOR, CHIP ELECT 4.7MF/16V
C13	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C14	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C15	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C16	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C17	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C18	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C19	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C20	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C21	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C22	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C23	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C24	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C101	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C102	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C103	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C104	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C105	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C106	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C107	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C108	1-107-686-11	s	CAPACITOR, CHIP ELECT 4.7MF/16V
C109	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C110	1-110-569-11	s	CAPACITOR CHIP TANTAL 47MF/6.3V
C111	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C112	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C113	1-126-395-11	s	CAPACITOR ELECT 22MF/16V (CHIP)
C114	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C115	1-104-553-11	s	CAPACITOR FILM 0.015MF/16V
C116	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C117	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C118	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C119	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C120	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C121	1-126-398-11	s	CAPACITOR ELECT 4.7MF/35V (CHIP)
C122	1-126-398-11	s	CAPACITOR ELECT 4.7MF/35V (CHIP)
C123	1-162-969-11	s	CAPACITOR, CERAMIC 6800PF/25V B
C124	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C125	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C126	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C127	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C128	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C129	1-163-259-91	s	CAPACITOR, CHIP CERAMIC 220PF
C130	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C131	1-163-113-00	s	CAPACITOR, CHIP CERAMIC 68PF/50

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C132	1-163-139-00	s	CAPACITOR, CHIP CERAMIC 820PF
C133	1-163-259-91	s	CAPACITOR, CHIP CERAMIC 220PF
C134	1-104-543-11	s	CAPACITOR, FILM 0.0022MF 50V
C135	1-163-137-00	s	CAPACITOR, CHIP CERAMIC 680PF
C136	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C137	1-104-561-11	s	CAPACITOR, FILM 0.068MF/16V
C138	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C139	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C140	1-126-395-11	s	CAPACITOR ELECT 22MF/16V (CHIP)
C142	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C143	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C201	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C202	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C203	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C204	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C205	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C206	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C207	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C208	1-107-686-11	s	CAPACITOR, CHIP ELECT 4.7MF/16V
C209	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C210	1-110-569-11	s	CAPACITOR CHIP TANTAL 47MF/6.3V
C211	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C212	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C213	1-126-395-11	s	CAPACITOR ELECT 22MF/16V (CHIP)
C214	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C215	1-104-553-11	s	CAPACITOR FILM 0.015MF/16V
C216	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C217	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C218	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C219	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C220	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C221	1-126-398-11	s	CAPACITOR ELECT 4.7MF/35V (CHIP)
C222	1-126-398-11	s	CAPACITOR ELECT 4.7MF/35V (CHIP)
C223	1-162-969-11	s	CAPACITOR, CERAMIC 6800PF/25V B
C224	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C225	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C226	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C227	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C228	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C229	1-163-259-91	s	CAPACITOR, CHIP CERAMIC 220PF
C230	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C231	1-163-113-00	s	CAPACITOR, CHIP CERAMIC 68PF/50
C232	1-163-139-00	s	CAPACITOR, CHIP CERAMIC 820PF
C233	1-163-259-91	s	CAPACITOR, CHIP CERAMIC 220PF
C234	1-104-543-11	s	CAPACITOR, FILM 0.0022MF 50V
C235	1-163-137-00	s	CAPACITOR, CHIP CERAMIC 680PF
C236	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C237	1-104-561-11	s	CAPACITOR, FILM 0.068MF/16V
C240	1-126-395-11	s	CAPACITOR ELECT 22MF/16V (CHIP)
C242	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C243	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C300	1-163-259-91	s	CAPACITOR, CHIP CERAMIC 220PF
C302	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C303	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C304	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C305	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C306	1-104-543-11	s	CAPACITOR, FILM 0.0022MF 50V
C307	1-104-539-11	s	CAPACITOR, CHIP FILM 0.001MF
C308	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)

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C309	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C310	1-104-551-11 s	CAPACITOR FILM 0.01MF/16V 2125
C311	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C312	1-126-396-11 s	CAPACITOR ELECT 47MF/16V(CHIP)
C314	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C315	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C400	1-163-259-91 s	CAPACITOR,CHIP CERAMIC 220PF
C402	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C403	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C404	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C405	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C406	1-104-543-11 s	CAPACITOR,FILM 0.0022MF 50V
C407	1-104-539-11 s	CAPACITOR,CHIP FILM 0.001MF
C408	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C409	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C410	1-104-551-11 s	CAPACITOR FILM 0.01MF/16V 2125
C411	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C412	1-126-396-11 s	CAPACITOR ELECT 47MF/16V(CHIP)
C414	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C415	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C500	1-163-259-91 s	CAPACITOR,CHIP CERAMIC 220PF
C502	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C503	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C504	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C505	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C506	1-104-543-11 s	CAPACITOR,FILM 0.0022MF 50V
C507	1 104 539 11 s	CAPACITOR,CHIP FILM 0.001MF
C508	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C509	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C510	1-104-551-11 s	CAPACITOR FILM 0.01MF/16V 2125
C511	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C514	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C515	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C516	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C517	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C518	1-126-396-11 s	CAPACITOR ELECT 47MF/16V(CHIP)
C600	1-163-259-91 s	CAPACITOR,CHIP CERAMIC 220PF
C602	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C603	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C604	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C605	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C606	1-104-543-11 s	CAPACITOR,FILM 0.0022MF 50V
C607	1-104-539-11 s	CAPACITOR,CHIP FILM 0.001MF
C608	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C609	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C610	1-104-551-11 s	CAPACITOR FILM 0.01MF/16V 2125
C611	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C614	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C615	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C618	1-126-396-11 s	CAPACITOR ELECT 47MF/16V(CHIP)
C700	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C701	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C702	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C703	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C704	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C705	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C709	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C710	1-104-913-11 s	CAPACITOR,CHIP TANTAL 10MF/16V
C750	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V

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C751	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C752	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C753	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C754	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C755	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C759	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C760	1-104-913-11 s	CAPACITOR,CHIP TANTAL 10MF/16V
C801	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C802	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C803	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C804	1-162-966-11 s	CAPACITOR,CERAMIC 2200PF/50V B
C805	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C806	1-162-964-11 s	CAPACITOR,CERAMIC 1000PF/50V B
C807	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C808	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C809	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C810	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C811	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C812	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C813	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C814	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C815	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C816	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C817	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C818	1-104-913-11 s	CAPACITOR,CHIP TANTAL 10MF/16V
C819	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C820	1 164 227 11 s	CAPACITOR,CERAMIC 0.022MF/25V
C821	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
CN1	1-695-223-21 o	PIN, CONNECTOR (SMD) 10P
CN2	1-764-007-11 o	PIN, CONNECTOR (SMD) 12P
D1	8-719-029-63 s	ZENER DIODE RD4.3UH-T1
D2	8-719-029-63 s	ZENER DIODE RD4.3UH-T1
D3	8-719-029-63 s	ZENER DIODE RD4.3UH-T1
D101	8-719-941-23 s	DIODE DA204U
D102	8-719-941-09 s	DIODE DAP202U
D201	8-719-941-23 s	DIODE DA204U
D202	8-719-941-09 s	DIODE DAP202U
D801	8-719-041-79 s	DIODE MA721WA-TX
D802	8-719-041-79 s	DIODE MA721WA-TX
IC1	8-759-710-88 s	IC NJM431U
IC2	8-759-359-66 s	IC TL082CPW (E05)
IC3	8-759-359-66 s	IC TL082CPW (E05)
IC4	8-759-082-55 s	IC TC7W00FU
IC5	8-759-431-95 s	IC S-81230SGUP-DQB-T1
IC6	8-729-045-28 s	TRANSISTOR SI4532DY-T1
IC7	8-729-045-28 s	TRANSISTOR SI4532DY-T1
IC101	8-759-700-84 s	IC NJM2041MD
IC102	8-759-700-84 s	IC NJM2041MD
IC103	8-759-700-84 s	IC NJM2041MD
IC104	8-759-359-66 s	IC TL082CPW (E05)
IC105	8-759-082-55 s	IC TC7W00FU
IC106	8-759-465-02 s	IC DG201BDY-T1
IC107	8-759-700-84 s	IC NJM2041MD
IC108	8-759-106-02 s	IC UPC4570G2
IC109	8-759-106-02 s	IC UPC4570G2
IC110	8-741-164-50 s	IC SBX1645-01 (HYBRID)
IC111	8-759-359-66 s	IC TL082CPW (E05)
IC112	8-759-106-02 s	IC UPC4570G2

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IC201	8-759-700-84	s	IC NJM2041MD
IC202	8-759-700-84	s	IC NJM2041MD
IC203	8-759-700-84	s	IC NJM2041MD
IC204	8-759-359-66	s	IC TL082CPW (E05)
IC205	8-759-082-55	s	IC TC7W00FU
IC206	8-759-465-02	s	IC DG201BDY-T1
IC207	8-759-700-84	s	IC NJM2041MD
IC208	8-759-106-02	s	IC UPC4570G2
IC209	8-759-106-02	s	IC UPC4570G2
IC212	8-759-271-86	s	IC TC7SH04FU
IC301	8-759-700-84	s	IC NJM2041MD
IC302	8-759-700-84	s	IC NJM2041MD
IC401	8-759-700-84	s	IC NJM2041MD
IC402	8-759-700-84	s	IC NJM2041MD
IC501	8-759-700-84	s	IC NJM2041MD
IC502	8-759-700-84	s	IC NJM2041MD
IC503	8-759-271-86	s	IC TC7SH04FU
IC504	8-759-465-02	s	IC DG201BDY-T1
IC601	8-759-700-84	s	IC NJM2041MD
IC602	8-759-700-84	s	IC NJM2041MD
IC603	8-759-271-86	s	IC TC7SH04FU
IC701	8-759-049-66	s	IC SN74HC125APW-E05
IC702	8-759-271-84	s	IC TC7SH02FU
IC703	8-759-536-23	s	IC AK4324-VF-E2
IC704	8-759-271-86	s	IC TC7SH04FU
IC751	8-759-049-66	s	IC SN74HC125APW-E05
IC752	8-759-271-84	s	IC TC7SH02FU
IC753	8-759-536-23	s	IC AK4324-VF-E2
IC755	8-759-271-86	s	IC TC7SH04FU
IC801	8-759-462-08	s	IC AK5352-VF (E2)
IC802	8-759-049-66	s	IC SN74HC125APW-E05
IC803	8-759-083-94	s	IC TC7W74FU
IC804	8-759-196-96	s	IC TC7SH08FU (TE85R)
IC805	8-759-391-30	s	IC 74LVX3245QSCX
IC806	8-759-391-30	s	IC 74LVX3245QSCX
IC807	8-759-391-30	s	IC 74LVX3245QSCX
IC808	8-759-196-96	s	IC TC7SH08FU (TE85R)
L1	1-406-864-21	s	COIL,CHOKE 4.7UH
L2	1-406-864-21	s	COIL,CHOKE 4.7UH
L701	1-412-170-11	s	MICRO INDUCTOR 0.47UH
L751	1-412-170-11	s	MICRO INDUCTOR 0.47UH
L801	1-412-170-11	s	MICRO INDUCTOR 0.47UH
L802	1-412-170-11	s	MICRO INDUCTOR 0.47UH
Q1	8-729-020-94	s	TRANSISTOR 2SA1314C-TE12L
Q2	8-729-808-42	s	TRANSISTOR 2SD1624-T
Q3	8-729-141-48	s	TRANSISTOR 2SB624-BV345
Q4	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q5	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q6	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q7	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q8	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q9	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q10	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q101	8-729-014-86	s	TRANSISTOR 2SC4207-YGR-TE85L
Q102	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q103	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q104	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q105	8-729-230-63	s	TRANSISTOR 2SC4116-YG

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Q106	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q107	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q108	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q109	8-729-012-35	s	FET 2SK711-BL
Q201	8-729-014-86	s	TRANSISTOR 2SC4207-YGR-TE85L
Q202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q203	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q204	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q205	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q206	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q207	8-729-230-63	s	TRANSISTOR 2SC4116-YG
Q208	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q209	8-729-012-35	s	FET 2SK711-BL
Q210	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q301	8-729-012-35	s	FET 2SK711-BL
Q302	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q401	8-729-012-35	s	FET 2SK711-BL
Q402	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q501	8-729-012-35	s	FET 2SK711-BL
Q502	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q601	8-729-012-35	s	FET 2SK711-BL
Q602	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q701	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q751	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q801	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
R1	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R2	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R3	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R4	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R5	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R6	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R7	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R8	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R9	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R10	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R11	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R12	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R13	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R14	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R15	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R16	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R17	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R18	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R19	1-218-751-11	s	RESISTOR,CHIP 300K 1/16W(1608)
R20	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R21	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R22	1-218-744-11	s	RESISTOR,METAL 150K 1/16
R101	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R102	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R103	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R104	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R105	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R106	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R107	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R108	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R109	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R110	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R111	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R112	1-218-675-11	s	RESISTOR,CHIP 200 1/16W (1608)

(AU-249 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R114	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R115	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R116	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R117	1-218-723-11	s RESISTOR,CHIP 20K 1/16W(1608)
R118	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R119	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R120	1-218-723-11	s RESISTOR,CHIP 20K 1/16W(1608)
R121	1-218-702-11	s RESISTOR,CHIP 2.7K 1/16W(1608)
R122	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R123	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R124	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R125	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R126	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R127	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R128	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R129	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R131	1-218-702-11	s RESISTOR,CHIP 2.7K 1/16W(1608)
R132	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R133	1-218-693-11	s RESISTOR,CHIP 1.1K 1/16W(1608)
R134	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R135	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R136	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R137	1-218-730-11	s RESISTOR,METAL FILM CHIP 39K
R138	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R139	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R140	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R141	1 218 726 11	s RESISTOR,CHIP 27K 1/16W (1608)
R142	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R143	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R144	1-218-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R145	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R146	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R147	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R148	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R149	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R150	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R151	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R152	1-218-727-11	s RESISTOR,CHIP 30K 1/16W(1608)
R153	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R154	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R155	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R156	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R157	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R158	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R159	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R160	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R161	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R162	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R163	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R164	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R165	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R166	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R167	1-218-702-11	s RESISTOR,CHIP 2.7K 1/16W(1608)
R168	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R169	1-218-683-11	s RESISTOR,CHIP 430 1/16W (1608)
R170	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R171	1-218-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R172	1-218-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R173	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R201	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R202	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R203	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R204	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R205	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R206	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R207	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R208	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R209	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R210	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R211	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R212	1-218-675-11	s RESISTOR,CHIP 200 1/16W (1608)
R214	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R215	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R216	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R217	1-218-723-11	s RESISTOR,CHIP 20K 1/16W(1608)
R218	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R219	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R220	1-218-723-11	s RESISTOR,CHIP 20K 1/16W(1608)
R221	1-218-702-11	s RESISTOR,CHIP 2.7K 1/16W(1608)
R222	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R223	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R224	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R225	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R226	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R227	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R228	1 218 716 11	s RESISTOR,CHIP 10K 1/16W(1608)
R229	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R231	1-218-702-11	s RESISTOR,CHIP 2.7K 1/16W(1608)
R232	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R233	1-218-693-11	s RESISTOR,CHIP 1.1K 1/16W(1608)
R234	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R235	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R236	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R237	1-218-730-11	s RESISTOR,METAL FILM CHIP 39K
R238	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R239	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R240	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R241	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R242	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R243	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R244	1-218-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R245	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R246	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R247	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R248	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R249	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R250	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R251	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R252	1-218-727-11	s RESISTOR,CHIP 30K 1/16W(1608)
R253	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R254	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R255	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R256	1-218-666-11	s RESISTOR,CHIP 82 1/16W (1608)
R257	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R258	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R259	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R260	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R261	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)

(AU-249 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R625	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R626	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R627	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R628	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R629	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R630	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R631	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R700	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R702	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R704	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R705	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R706	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R707	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R708	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R709	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R712	1-218-644-11	s RESISTOR,METAL 10 1/16W
R714	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R715	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R750	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R752	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R754	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R755	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R756	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R757	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R758	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R759	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R762	1 218 644 11	s RESISTOR,METAL 10 1/16W
R764	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R801	1-218-644-11	s RESISTOR,METAL 10 1/16W
R804	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R805	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R806	1-218-644-11	s RESISTOR,METAL 10 1/16W
R807	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R808	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R809	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R810	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R811	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R812	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R813	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R814	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R815	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R816	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
RB801	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB802	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB803	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB804	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB805	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB806	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB807	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RV1	1-237-039-11	s RESISTOR,ADJ, CERMET 100K
RV101	1-237-032-11	s RESISTOR,ADJ, CERMET 500
RV102	1-237-031-11	s RESISTOR,ADJ, CERMET 200
RV201	1-237-032-11	s RESISTOR,ADJ, CERMET 500
RV202	1-237-031-11	s RESISTOR,ADJ, CERMET 200
RV301	1-237-034-11	s RESISTOR,ADJ, CERMET 2K
RV401	1-237-034-11	s RESISTOR,ADJ, CERMET 2K
RV501	1-237-034-11	s RESISTOR,ADJ, CERMET 2K
RV601	1-237-034-11	s RESISTOR,ADJ, CERMET 2K

(AU-249 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S1	1-692-270-41	s SWITCH, SLIDE



CP-344 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-898-A	o	MOUNTED CIRCUIT BOARD, CP-344
9pcs	4-352-844-01	o	PIN, LEAD, COATING
C100	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C101	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C103	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C104	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C105	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C106	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C107	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C108	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C109	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C142	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C145	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C146	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C147	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C149	1-163-133-00	s	CAPACITOR CERAMIC 100PF/50V
C161	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C163	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C164	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C166	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C200	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C201	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C203	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C204	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C205	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C206	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C207	1 163 243 11	s	CAPACITOR CHIP CERAMIC 47PF/50
C208	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C209	1-126-405-11	s	CAPACITOR,ELECT 10MF/50V(CHIP
C242	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C245	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C246	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C247	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C249	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C261	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C263	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C264	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C266	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C300	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C301	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C302	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C303	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C304	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C305	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C400	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C401	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C402	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C403	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C404	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C500	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C501	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C502	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C503	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C504	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C600	1-128-526-11	s	CAPACITOR ERECT 100MF/25V(105C
C601	1-128-526-11	s	CAPACITOR ERECT 100MF/25V(105C
C700	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C701	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50

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Ref. No. or Q'ty	Part No.	SP	Description
C702	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C703	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C704	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C800	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C801	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C802	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C803	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C804	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
CN1	1-580-789-21	o	PIN,CONNECTOR (SMD)
CN2	1-580-057-11	o	PIN,CONNECTOR 4P
CN100	1-750-786-21	s	CONNECTOR (XLR TYPE) 3P
CN400	1-750-785-21	s	CONNECTOR (XLR TYPE) 3P
CN600	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD)1.5MM
CN601	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD)1.5MM
CN700	1-750-785-21	s	CONNECTOR (XLR TYPE) 3P
D100	8-719-404-35	s	DIODE MA141WK
D101	8-719-024-81	s	DIODE 1SS300-TE85L
D200	8-719-404-35	s	DIODE MA141WK
D201	8-719-024-81	s	DIODE 1SS300-TE85L
D400	8-719-404-35	s	DIODE MA141WK
D401	8-719-024-81	s	DIODE 1SS300-TE85L
D500	8-719-404-35	s	DIODE MA141WK
D501	8-719-024-81	s	DIODE 1SS300-TE85L
D700	8-719-404-35	s	DIODE MA141WK
D701	8-719-024-81	s	DIODE 1SS300-TE85L
D800	8 719 404 35	s	DIODE MA141WK
D801	8-719-024-81	s	DIODE 1SS300-TE85L
FL400	1-239-895-11	s	FILTER, EMI (SMD)
FL401	1-239-895-11	s	FILTER, EMI (SMD)
FL500	1-239-895-11	s	FILTER, EMI (SMD)
FL501	1-239-895-11	s	FILTER, EMI (SMD)
FL700	1-239-895-11	s	FILTER, EMI (SMD)
FL701	1-239-895-11	s	FILTER, EMI (SMD)
FL800	1-239-895-11	s	FILTER, EMI (SMD)
FL801	1-239-895-11	s	FILTER, EMI (SMD)
IC100	8-759-711-85	s	IC NJM4580E-D
IC101	8-759-711-85	s	IC NJM4580E-D
IC142	8-759-588-04	s	IC SSM2018TS-REEL
IC145	8-759-598-35	s	IC NJM2119M(Te2)
IC200	8-759-711-85	s	IC NJM4580E-D
IC201	8-759-711-85	s	IC NJM4580E-D
IC242	8-759-588-04	s	IC SSM2018TS-REEL
IC245	8-759-598-35	s	IC NJM2119M(Te2)
IC400	8-759-711-85	s	IC NJM4580E-D
IC401	8-759-158-99	s	IC SSM-2142P
IC501	8-759-158-99	s	IC SSM-2142P
IC700	8-759-711-85	s	IC NJM4580E-D
IC701	8-759-158-99	s	IC SSM-2142P
IC801	8-759-158-99	s	IC SSM-2142P
L100	1-412-184-11	s	MICRO INDUCTOR 8.2UH
L101	1-412-184-11	s	MICRO INDUCTOR 8.2UH
L200	1-412-184-11	s	MICRO INDUCTOR 8.2UH
L201	1-412-184-11	s	MICRO INDUCTOR 8.2UH
Q100	8-729-271-31	s	TRANSISTOR 2SC2713-G
Q200	8-729-271-31	s	TRANSISTOR 2SC2713-G
Q300	8-729-020-93	s	TRANSISTOR 2SC2982C-TE12L
Q301	8-729-106-60	s	TRANSISTOR 2SB1115A

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Ref. No. or Q'ty	Part No.	SP Description
Q400	8-729-013-37	s TRANSISTOR 2SC4213-AB-TE85L
Q500	8-729-013-37	s TRANSISTOR 2SC4213-AB-TE85L
Q700	8-729-013-37	s TRANSISTOR 2SC4213-AB-TE85L
Q800	8-729-013-37	s TRANSISTOR 2SC4213-AB-TE85L
R101	1-216-295-91	s RESISTOR, CHIP 0 (1/10W)
R103	1-216-295-91	s RESISTOR, CHIP 0 (1/10W)
R104	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R105	1-220-386-11	s RESISTOR,METAL FILM CHIP 3.6K
R106	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R107	1-220-386-11	s RESISTOR,METAL FILM CHIP 3.6K
R108	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R109	1-216-648-11	s RESISTOR,CHIP 750 1/10W (2012)
R110	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R111	1-216-648-11	s RESISTOR,CHIP 750 1/10W (2012)
R112	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R113	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R114	1-216-640-11	s RESISTOR CHIP 160 1/10W (2012)
R115	1-216-634-11	s RESISTOR,CHIP 200 1/10W(2012)
R116	1-216-637-11	s RESISTOR CHIP 270 1/10W (2012)
R117	1-216-637-11	s RESISTOR CHIP 270 1/10W (2012)
R118	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R119	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R120	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R121	1-216-631-11	s RESISTOR,CHIP 150 1/10W (2012)
R122	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R123	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R124	1 216 685 11	s RESISTOR,CHIP 27K 1/10W(2012)
R127	1-216-638-11	s RESISTOR,CHIP 300 1/10W (2012)
R131	1-218-366-11	s RESISTOR,METAL CHIP 3300 1/10W
R132	1-218-367-11	s RESISTOR,METAL FILM CHIP 10K
R133	1-218-366-11	s RESISTOR,METAL CHIP 3300 1/10W
R134	1-218-367-11	s RESISTOR,METAL FILM CHIP 10K
R135	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R143	1-216-681-11	s RESISTOR CHIP 18K 1/10W (2012)
R147	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R148	1-216-689-11	s RESISTOR,CHIP 39K 1/10W(2012)
R149	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R150	1-216-643-11	s RESISTOR CHIP 470 1/10W (2012)
R151	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R153	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R154	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R155	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R159	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R161	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R162	1-216-683-11	s RESISTOR CHIP 22K 1/10W (2012)
R163	1-216-670-11	s RESISTOR,CHIP 6.2K 1/10W(2012)
R164	1-218-754-11	s RESISTOR METAL CHIP 120K(2012)
R201	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R203	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R204	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R205	1-220-386-11	s RESISTOR,METAL FILM CHIP 3.6K
R206	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R207	1-220-386-11	s RESISTOR,METAL FILM CHIP 3.6K
R208	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R209	1-216-648-11	s RESISTOR,CHIP 750 1/10W (2012)
R210	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R211	1-216-648-11	s RESISTOR,CHIP 750 1/10W (2012)
R212	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R213	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K

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Ref. No. or Q'ty	Part No.	SP Description
R214	1-216-640-11	s RESISTOR CHIP 160 1/10W (2012)
R215	1-216-634-11	s RESISTOR,CHIP 200 1/10W(2012)
R216	1-216-637-11	s RESISTOR CHIP 270 1/10W (2012)
R217	1-216-637-11	s RESISTOR CHIP 270 1/10W (2012)
R218	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R219	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R220	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R221	1-216-631-11	s RESISTOR,CHIP 150 1/10W (2012)
R222	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R223	1-220-751-11	s RESISTOR,METAL FILM CHIP 2.2K
R224	1-216-685-11	s RESISTOR,CHIP 27K 1/10W(2012)
R227	1-216-638-11	s RESISTOR,CHIP 300 1/10W (2012)
R231	1-218-366-11	s RESISTOR,METAL CHIP 3300 1/10W
R232	1-218-367-11	s RESISTOR,METAL FILM CHIP 10K
R233	1-218-366-11	s RESISTOR,METAL CHIP 3300 1/10W
R234	1-218-367-11	s RESISTOR,METAL FILM CHIP 10K
R235	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R243	1-216-681-11	s RESISTOR CHIP 18K 1/10W (2012)
R247	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R248	1-216-689-11	s RESISTOR,CHIP 39K 1/10W(2012)
R249	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R250	1-216-643-11	s RESISTOR CHIP 470 1/10W (2012)
R251	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R253	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R254	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R255	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R259	1 216 295 91	s RESISTOR,CHIP 0 (1/10W)
R261	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R262	1-216-683-11	s RESISTOR CHIP 22K 1/10W (2012)
R263	1-216-670-11	s RESISTOR,CHIP 6.2K 1/10W(2012)
R264	1-218-754-11	s RESISTOR METAL CHIP 120K(2012)
R300	1-216-653-11	s RESISTOR CHIP 1.2K 1/10W(2012)
R301	1-216-653-11	s RESISTOR CHIP 1.2K 1/10W(2012)
R400	1-216-672-11	s RESISTOR,CHIP 7.5K 1/10W(2012)
R401	1-216-672-11	s RESISTOR,CHIP 7.5K 1/10W(2012)
R402	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R403	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R404	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R405	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R407	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R408	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R410	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R411	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R500	1-216-672-11	s RESISTOR,CHIP 7.5K 1/10W(2012)
R501	1-216-672-11	s RESISTOR,CHIP 7.5K 1/10W(2012)
R502	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R503	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R504	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R505	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R507	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R508	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R510	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R700	1-216-672-11	s RESISTOR,CHIP 7.5K 1/10W(2012)
R701	1-216-672-11	s RESISTOR,CHIP 7.5K 1/10W(2012)
R702	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R703	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R704	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R705	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R707	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)

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Ref. No. or Q'ty	Part No.	SP	Description
R708	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R710	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R800	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R801	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R802	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R803	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R804	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R805	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
R807	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R808	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R810	1-216-675-11	s	RESISTOR CHIP 10K 1/10W(2012)
RV141	1-241-260-11	s	RESISTOR ADJ 500 (CERMET)
RV241	1-241-260-11	s	RESISTOR ADJ 500 (CERMET)
S100	1-572-042-11	s	SWITCH,SLIDE (2-4-3)
S101	1-570-157-51	s	SWITCH,SLIDE (1-1-3)
S200	1-572-042-11	s	SWITCH,SLIDE (2-4-3)
S201	1-570-157-51	s	SWITCH,SLIDE (1-1-3)
TH141	1-810-106-11	s	THERMISTOR, POSITIVE LINEAR
TH241	1-810-106-11	s	THERMISTOR, POSITIVE LINEAR

CP-344A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8323-001-A	o	MOUNTED CIRCUIT BOARD, CP-344A
9pcs	4-352-844-01	o	PIN, LEAD, COATING
C101	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C102	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C103	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C104	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C105	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C106	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C107	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C108	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C142	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C145	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C146	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C147	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C149	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C161	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C163	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C164	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C166	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C201	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C202	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C203	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C204	1-163-133-00	s	CAPACITOR,CHIP CERAMIC 470PF
C205	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C206	1-107-909-11	s	CAPACITOR,ELECT 47MF/50V
C207	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C208	1 163 243 11	s	CAPACITOR CHIP CERAMIC 47PF/50
C242	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C245	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C246	1-115-154-11	s	CAPACITOR ELECT 10MF/16V(BP)
C247	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C249	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C261	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C263	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C264	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C266	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C300	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C301	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C302	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C303	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C304	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C305	1-115-581-11	s	CAPACITOR CHIP ELECT 100MF/16V
C400	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C401	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C402	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C403	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C404	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C500	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C501	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C502	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C503	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C504	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C600	1-128-526-11	s	CAPACITOR ERECT 100MF/25V(105C
C601	1-128-526-11	s	CAPACITOR ERECT 100MF/25V(105C
C700	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C701	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C702	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C703	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)

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Ref. No. or Q'ty	Part No.	SP	Description
C704	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C800	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C801	1-163-243-11	s	CAPACITOR CHIP CERAMIC 47PF/50
C802	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C803	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
C804	1-104-653-11	s	CAPACITOR ELECT 220MF/16V(105)
CN1	1-580-789-21	o	PIN,CONNECTOR (SMD)
CN2	1-580-057-11	o	PIN,CONNECTOR 4P
CN100	1-750-785-21	s	CONNECTOR (XLR TYPE) 3P
CN400	1-750-786-21	s	CONNECTOR (XLR TYPE) 3P
CN600	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD) 1.5MM
CN601	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD) 1.5MM
CN700	1-750-786-21	s	CONNECTOR (XLR TYPE) 3P
D100	8-719-404-35	s	DIODE MA141WK
D101	8-719-024-81	s	DIODE 1SS300-TE85L
D200	8-719-404-35	s	DIODE MA141WK
D201	8-719-024-81	s	DIODE 1SS300-TE85L
D400	8-719-404-35	s	DIODE MA141WK
D401	8-719-024-81	s	DIODE 1SS300-TE85L
D500	8-719-404-35	s	DIODE MA141WK
D501	8-719-024-81	s	DIODE 1SS300-TE85L
D700	8-719-404-35	s	DIODE MA141WK
D701	8-719-024-81	s	DIODE 1SS300-TE85L
D800	8-719-404-35	s	DIODE MA141WK
D801	8-719-024-81	s	DIODE 1SS300-TE85L
FL400	1-239-895-11	s	FILTER, EMI (SMD)
FL401	1-239-895-11	s	FILTER, EMI (SMD)
FL500	1-239-895-11	s	FILTER, EMI (SMD)
FL501	1-239-895-11	s	FILTER, EMI (SMD)
FL700	1-239-895-11	s	FILTER, EMI (SMD)
FL701	1-239-895-11	s	FILTER, EMI (SMD)
FL800	1-239-895-11	s	FILTER, EMI (SMD)
FL801	1-239-895-11	s	FILTER, EMI (SMD)
IC100	8-759-711-85	s	IC NJM4580E-D
IC101	8-759-711-85	s	IC NJM4580E-D
IC142	8-759-588-04	s	IC SSM2018TS-REEL
IC145	8-759-598-35	s	IC NJM2119M (TE2)
IC200	8-759-711-85	s	IC NJM4580E-D
IC201	8-759-711-85	s	IC NJM4580E-D
IC242	8-759-588-04	s	IC SSM2018TS-REEL
IC245	8-759-598-35	s	IC NJM2119M (TE2)
IC400	8-759-711-85	s	IC NJM4580E-D
IC401	8-759-158-99	s	IC SSM-2142P
IC501	8-759-158-99	s	IC SSM-2142P
IC700	8-759-711-85	s	IC NJM4580E-D
IC701	8-759-158-99	s	IC SSM-2142P
IC801	8-759-158-99	s	IC SSM-2142P
L100	1-412-184-11	s	MICRO INDUCTOR 8.2UH
L101	1-412-184-11	s	MICRO INDUCTOR 8.2UH
L200	1-412-184-11	s	MICRO INDUCTOR 8.2UH
L201	1-412-184-11	s	MICRO INDUCTOR 8.2UH
Q300	8-729-020-93	s	TRANSISTOR 2SC2982C-TE12L
Q301	8-729-106-60	s	TRANSISTOR 2SB1115A
Q400	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q500	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q700	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L

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Ref. No. or Q'ty	Part No.	SP	Description
Q800	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
R100	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R102	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R104	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R105	1-220-386-11	s	RESISTOR,METAL FILM CHIP 3.6K
R106	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R107	1-220-386-11	s	RESISTOR,METAL FILM CHIP 3.6K
R108	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R109	1-216-648-11	s	RESISTOR,CHIP 750 1/10W (2012)
R110	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R111	1-216-648-11	s	RESISTOR,CHIP 750 1/10W (2012)
R112	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R113	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R114	1-216-640-11	s	RESISTOR,CHIP 160 1/10W (2012)
R115	1-216-634-11	s	RESISTOR,CHIP 200 1/10W(2012)
R116	1-216-637-11	s	RESISTOR,CHIP 270 1/10W (2012)
R117	1-216-637-11	s	RESISTOR,CHIP 270 1/10W (2012)
R118	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R119	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R120	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R121	1-216-631-11	s	RESISTOR,CHIP 150 1/10W (2012)
R122	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R123	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R127	1-216-638-11	s	RESISTOR,CHIP 300 1/10W (2012)
R131	1-218-366-11	s	RESISTOR,METAL CHIP 3300 1/10W
R132	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R133	1-218-366-11	s	RESISTOR,METAL CHIP 3300 1/10W
R134	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R135	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R143	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R147	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R148	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R149	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R150	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R151	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R153	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R154	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R155	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R159	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R161	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R162	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R163	1-216-670-11	s	RESISTOR,CHIP 6.2K 1/10W(2012)
R164	1-218-754-11	s	RESISTOR,METAL CHIP 120K(2012)
R200	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R202	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R204	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R205	1-220-386-11	s	RESISTOR,METAL FILM CHIP 3.6K
R206	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R207	1-220-386-11	s	RESISTOR,METAL FILM CHIP 3.6K
R208	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R209	1-216-648-11	s	RESISTOR,CHIP 750 1/10W (2012)
R210	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R211	1-216-648-11	s	RESISTOR,CHIP 750 1/10W (2012)
R212	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R213	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R214	1-216-640-11	s	RESISTOR,CHIP 160 1/10W (2012)
R215	1-216-634-11	s	RESISTOR,CHIP 200 1/10W(2012)
R216	1-216-637-11	s	RESISTOR,CHIP 270 1/10W (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R217	1-216-637-11	s	RESISTOR,CHIP 270 1/10W (2012)
R218	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R219	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R220	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R221	1-216-631-11	s	RESISTOR,CHIP 150 1/10W (2012)
R222	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R223	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R227	1-216-638-11	s	RESISTOR,CHIP 300 1/10W (2012)
R231	1-218-366-11	s	RESISTOR,METAL CHIP 3300 1/10W
R232	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R233	1-218-366-11	s	RESISTOR,METAL CHIP 3300 1/10W
R234	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R235	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R243	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R247	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R248	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R249	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R250	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R251	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R253	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R254	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R255	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R259	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R261	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R262	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R263	1-216-670-11	s	RESISTOR,CHIP 6.2K 1/10W(2012)
R264	1-218-754-11	s	RESISTOR,METAL CHIP 120K(2012)
R300	1-216-653-11	s	RESISTOR,CHIP 1.2K 1/10W(2012)
R301	1-216-653-11	s	RESISTOR,CHIP 1.2K 1/10W(2012)
R400	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R401	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R402	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R403	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R404	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R405	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R406	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R409	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R410	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R411	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R500	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R501	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R502	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R503	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R504	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R505	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R506	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R509	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R510	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R700	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R701	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R702	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R703	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R704	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R705	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R706	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R709	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R710	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R800	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)
R801	1-216-672-11	s	RESISTOR,CHIP 7.5K 1/10W(2012)

(CP-344A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R802	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R803	1-216-686-11	s	RESISTOR,METAL FILM 30K 1/10W
R804	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R805	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R806	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R809	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R810	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
RV141	1-241-260-11	s	RESISTOR,ADJ 500 (CERMET)
RV241	1-241-260-11	s	RESISTOR,ADJ 500 (CERMET)
S100	1-572-042-11	s	SWITCH,SLIDE (2-4-3)
S200	1-572-042-11	s	SWITCH,SLIDE (2-4-3)
TH141	1-810-106-11	s	THERMISTOR, POSITIVE LINEAR
TH241	1-810-106-11	s	THERMISTOR, POSITIVE LINEAR

CP-354 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8323-195-A	o MOUNTED CIRCUIT BOARD, CP-354
1pc	1-500-371-11	o CORE (D-SUB)
4pcs	4-352-844-01	o PIN, LEAD, COATING
C100	1-117-372-11	s CAP,ELECT (SMD) 100MF/10V
C101	1-117-372-11	s CAP,ELECT (SMD) 100MF/10V
C102	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C103	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C104	1-117-372-11	s CAP,ELECT (SMD) 100MF/10V
C105	1-117-372-11	s CAP,ELECT (SMD) 100MF/10V
C106	1-163-229-11	s CAPACITOR CHIP 12PF/50V(2125)
C200	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C201	1-110-501-11	s CAPACITOR CERAMIC 0.33MF/16V
C202	1-110-501-11	s CAPACITOR CERAMIC 0.33MF/16V
C203	1-163-275-11	s CAPACITOR CERAMIC 1000PF/50V
C204	1-163-235-11	s CAPACITOR,CHIP CERAMIC 22PF/50
C205	1-126-390-11	s CAPACITOR ELECT 22MF/6.3V(105)
C206	1-126-390-11	s CAPACITOR ELECT 22MF/6.3V(105)
C207	1-110-569-11	s CAPACITOR CHIP TANTAL47MF/6.3V
C208	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C600	1-163-011-11	s CAPACITOR,CHIP CERAMIC 1500PF
C601	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C604	1-126-397-11	s CAPACITOR ELECT 33MF/25V(CHIP)
C605	1-163-017-00	s CAPACITOR,CHIP CERAMIC 4700PF
C606	1-126-397-11	s CAPACITOR ELECT 33MF/25V(CHIP)
C607	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C608	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C609	1 115 339 11	s CAPACITOR CERAMIC 0.1MF/50V
C610	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
CN1	1-564-719-11	o PIN,CONNECTOR (3P)
CN2	1-564-718-11	o PIN,CONNECTOR (2P)
CN3	1-564-013-31	s CONNECTOR PIN 3P
CN4	1-564-013-31	s CONNECTOR PIN 3P
CN100	1-573-584-11	s CONNECTOR, BNC (RECEPTACLE)
CN101	1-573-584-11	s CONNECTOR, BNC (RECEPTACLE)
CN200	1-766-788-11	s CONNECTOR, COAXIAL (BNC TYPE)
CN301	1-568-676-11	o CONNECTOR, D-SUB 9P
CN700	1-695-223-21	o PIN,CONNECTOR (SMD) 10P
CN701	1-764-007-11	o PIN,CONNECTOR (SMD) 12P
CN702	1-580-056-21	o PIN,CONNECTOR 3P
D100	8-719-820-41	s DIODE 1SS302
D101	8-719-820-41	s DIODE 1SS302
D102	8-719-820-41	s DIODE 1SS302
D103	8-719-820-41	s DIODE 1SS302
D200	8-719-820-41	s DIODE 1SS302
D201	8-719-105-28	s DIODE RD2.4M-B
D202	8-719-820-41	s DIODE 1SS302
D203	8-719-105-28	s DIODE RD2.4M-B
D204	8-719-820-41	s DIODE 1SS302
D600	8-719-048-17	s DIODE MBR5130LT3
D601	8-719-820-41	s DIODE 1SS302
FL100	1-239-895-11	s FILTER, EMI (SMD)
FL101	1-239-896-12	s FILTER, EMI (SMD)
FL102	1-239-896-12	s FILTER, EMI (SMD)
FL103	1-239-896-12	s FILTER, EMI (SMD)
FL200	1-239-895-11	s FILTER, EMI (SMD)
FL201	1-239-895-11	s FILTER, EMI (SMD)

(CP-354 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC100	8-759-392-64	s IC AD828AR
IC200	8-759-441-31	s IC MC14053BDTR2
IC201	8-759-369-73	s IC NJM4556AM
IC202	8-759-173-16	s IC TL062CPW
IC600	8-759-521-35	s IC TL5001CD
IC602	8-729-040-75	s TRANSISTOR SI4953DY
IC604	8-759-035-87	s IC SC7S00F
IC605	8-759-523-97	s IC TC74VHC123AFT (EL)
L600	1-409-722-11	s COIL, CHOKE 220UH
PS600	Δ 1-533-282-21	s CIRCUIT PROTECTOR 2A (3225)
Q600	8-729-117-32	s TRANSISTOR 2SC4177
Q601	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q603	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q604	8-729-029-14	s TRANSISTOR DTC144EUA-T106
R100	1-216-624-11	s RESISTOR,CHIP 75 1/10W(2012)
R101	1-216-624-11	s RESISTOR,CHIP 75 1/10W(2012)
R106	1-216-679-11	s RESISTOR CHIP 15K 1/10W (2012)
R107	1-216-679-11	s RESISTOR CHIP 15K 1/10W (2012)
R108	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R109	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R110	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R111	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R112	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R113	1-216-650-11	s RESISTOR,CHIP 910 1/10W(2012)
R114	1 216 627 11	s RESISTOR,CHIP 100 1/10W (2012)
R115	1-216-619-11	s RESISTOR CHIP 47 1/10W(2012)
R116	1-216-624-11	s RESISTOR,CHIP 75 1/10W(2012)
R200	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R202	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R203	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R204	1-216-679-11	s RESISTOR CHIP 15K 1/10W (2012)
R205	1-216-689-11	s RESISTOR,CHIP 39K 1/10W(2012)
R206	1-216-685-11	s RESISTOR,CHIP 27K 1/10W(2012)
R207	1-216-687-11	s RESISTOR CHIP 33K 1/10W (2012)
R208	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R209	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R210	1-216-685-11	s RESISTOR,CHIP 27K 1/10W(2012)
R211	1-218-760-11	s RESISTOR,CHIP 220K 1/10W(2012)
R212	1-216-691-11	s RESISTOR CHIP 47K 1/10W(2012)
R213	1-216-662-11	s RESISTOR,CHIP 3K 1/10W (2012)
R214	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R215	1-218-776-11	s RESISTOR CHIP 1M 1/10W (2012)
R216	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R217	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R218	1-216-655-11	s RESISTOR,CHIP 1.5K 1/10W(2012)
R219	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R220	1-216-691-11	s RESISTOR CHIP 47K 1/10W(2012)
R221	1-216-624-11	s RESISTOR,CHIP 75 1/10W(2012)
R223	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R224	1-216-685-11	s RESISTOR,CHIP 27K 1/10W(2012)
R300	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R600	1-216-691-11	s RESISTOR CHIP 47K 1/10W(2012)
R601	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R602	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R603	1-216-679-11	s RESISTOR CHIP 15K 1/10W (2012)
R604	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R605	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)

(CP-354 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R611	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R613	1-216-619-11	s RESISTOR CHIP 47 1/10W(2012)
R614	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R619	1-216-691-11	s RESISTOR CHIP 47K 1/10W(2012)
R621	1-216-697-91	s RESISTOR CHIP METAL OXIDE 82K
R622	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R623	1-216-697-91	s RESISTOR CHIP METAL OXIDE 82K
R626	1-216-691-11	s RESISTOR CHIP 47K 1/10W(2012)
R627	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R632	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R633	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R634	1-216-675-11	s RESISTOR CHIP 10K 1/10W(2012)
R635	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
S100	1-570-157-51	s SWITCH,SLIDE (1-1-3)
S101	1-570-157-51	s SWITCH,SLIDE (1-1-3)

CT-209 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-969-A	o MOUNTED CIRCUIT BOARD, CT-209
CN5	1-580-057-11	o PIN,CONNECTOR 4P
EN1	1-475-568-11	s ENCODER, ROTARY

DC-97 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8318-279-B	o MOUNTED CIRCUIT BOARD, DC-97
8pcs	1-562-260-11	o CONTACT, SOCKET
1pc	1-580-696-11	o HOUSING, CONNECTOR 9P
CN1	1-564-603-11	s CONNECTOR(WITH DC SW) 4P
CN2	1-568-622-11	o PIN, SIL 2P
FL1	1-117-193-11	s CAPACITOR,3 TERMINAL 1.5MF/50V
FL2	1-117-193-11	s CAPACITOR,3 TERMINAL 1.5MF/50V

DEC-97 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-704-A	o MOUNTED CIRCUIT BOARD, DEC-97
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
2pcs	3-603-737-01	o LEVER, BOARD
C1	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C2	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C5	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C7	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C8	1-162-910-11	s CAPACITOR,CERAMIC 5PF/50V 1608
C9	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C10	1-162-908-11	s CAPACITOR,CERAMIC 3PF/50V 1608
C13	1-107-689-21	s CAPACITOR TANTALUM 1MF/35V
C14	1-107-686-11	s CAPACITOR,CHIP ELECT 4.7MF/16V
C15	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C16	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C17	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C18	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C19	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C20	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C21	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C22	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C24	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C25	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C26	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C27	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C28	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C29	1 107 826 11	s CAPACITOR,CHIP CERAMIC 0.1MF
C30	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C31	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C32	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C33	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C34	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C35	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C36	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C39	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C40	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C41	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C42	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C43	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C44	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C45	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C46	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C47	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C48	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C49	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C51	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C52	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C53	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C54	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C55	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C56	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C57	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C58	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C59	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C60	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C61	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C62	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C63	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH

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Ref. No. or Q'ty	Part No.	SP Description
C64	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C65	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C66	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C67	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C68	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C69	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C70	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C71	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C72	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C73	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C74	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C75	1-164-217-11	s CAPACITOR,CERAMIC 150PF/50V CH
C76	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C77	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C78	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C79	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C80	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C81	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C82	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C83	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C84	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C85	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C86	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C87	1-115-169-11	s CAPACITOR,TANTAL (SMD) 10MF
C88	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C89	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C90	1 107 826 11	s CAPACITOR,CHIP CERAMIC 0.1MF
C91	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C92	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C93	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C94	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C95	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C96	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C97	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C98	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C99	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C100	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C101	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C102	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C103	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C104	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C105	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C106	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C107	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C108	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C109	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C110	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C111	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C113	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C118	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C119	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C120	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C121	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C122	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C123	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C126	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C129	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C130	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C131	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C132	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C133	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C135	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C136	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C138	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C139	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C140	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C141	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C142	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C143	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C144	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C145	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C146	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C147	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C148	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C149	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C150	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C156	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C157	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C158	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C159	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C160	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C161	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C162	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C163	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C164	1 107 823 11	s	CAPACITOR,CERAMIC 0.47MF/16V
C165	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C166	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C167	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C168	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C169	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C171	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C172	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C173	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C174	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C175	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C176	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C177	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C178	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C179	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C180	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C181	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C182	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C183	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C184	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C185	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN72	1-695-453-11	s	CONNECTOR,BOARD TO BOARD 50P
CP1	1-767-696-11	s	OSCILLATOR, CRYSTAL
CP2	1-767-618-11	s	OSCILLATOR, CRYSTAL
D2	8-719-941-23	s	DIODE DA204U
D3	8-719-941-23	s	DIODE DA204U
FB1	1-543-309-21	s	BEAD,FERRITE
FL1	1-234-262-21	s	FILTER, LOW PASS
IC1	8-759-700-95	s	IC NJM1496M

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Ref. No. or Q'ty	Part No.	SP	Description
IC2	8-759-271-86	s	IC TC7SH04FU
IC3	8-752-061-02	s	IC CXA1450M
IC4	8-759-098-16	s	IC LT1227CS8
IC5	8-759-441-31	s	IC MC14053BDTR2
IC6	8-759-262-03	s	IC MC14577CF
IC7	8-759-524-50	s	IC TC74VHC541FT(EL)
IC8	8-759-485-82	s	IC MC34182DR2
IC9	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC10	8-759-523-95	s	IC TC74VHC74FT(EL)
IC11	8-759-058-64	s	IC TC7S32FU-TE85R
IC12	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC13	8-759-485-82	s	IC MC34182DR2
IC14	8-759-242-64	s	IC TC4W53F
IC15	8-759-987-27	s	IC LM1881M
IC16	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC17	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC18	8-759-054-61	s	IC CLC505AJE
IC19	8-759-485-82	s	IC MC34182DR2
IC20	8-759-702-08	s	IC NJM360M
IC21	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC22	8-759-485-82	s	IC MC34182DR2
IC23	8-759-702-08	s	IC NJM360M
IC24	8-759-058-64	s	IC TC7S32FU-TE85R
IC25	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC26	8-759-524-18	s	IC TC74VHC163FT(EL)
IC27	8-759-524-18	s	IC TC74VHC163FT(EL)
IC28	8 759 523 95	s	IC TC74VHC74FT(EL)
IC29	8-759-233-66	s	IC TC74HCT04AF
IC30	8-759-234-77	s	IC TC4S66F
IC31	8-759-485-82	s	IC MC34182DR2
IC32	8-759-391-30	s	IC 74LVX3245QSCX
IC33	8-752-381-84	s	IC CXD1095BQ
IC34	8-759-251-40	s	IC MB88E346PFV-G-BND-ER
IC35	8-759-271-86	s	IC TC7SH04FU
IC36	8-759-710-88	s	IC NJM431U
IC37	8-759-173-16	s	IC TL062CPW
IC38	8-759-542-91	s	IC S-80840ANUP-ED4-T2
IC39	8-759-209-90	s	IC TC4S71F
IC40	8-752-376-32	s	IC CXD2310AR
IC41	8-752-360-44	s	IC CXK1203AR
IC42	8-752-375-22	s	IC CXD304-106Q
IC43	8-759-174-13	s	IC EPM7032LC44-15
IC44	8-729-047-61	s	TRANSISTOR SI4925DY-T1
IC45	8-759-173-16	s	IC TL062CPW
IC46	8-759-524-28	s	IC TC74VHC245FT(EL)
IC47	8-752-334-55	s	IC CXD1175AM
IC48	8-759-485-82	s	IC MC34182DR2
IC49	8-759-196-97	s	IC TC7SH32FU (TE85R)
IC50	8-759-524-28	s	IC TC74VHC245FT(EL)
IC51	8-759-524-28	s	IC TC74VHC245FT(EL)
IC52	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC53	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC54	8-759-196-97	s	IC TC7SH32FU (TE85R)
IC55	8-759-271-86	s	IC TC7SH04FU
IC56	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC57	8-759-196-96	s	IC TC7SH08FU (TE85R)
IC58	8-752-334-55	s	IC CXD1175AM
IC59	8-759-710-88	s	IC NJM431U

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Ref. No. or Q'ty	Part No.	SP Description
L1	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L2	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L3	1-414-754-11	s INDUCTOR 10.0UH
L4	1-414-754-11	s INDUCTOR 10.0UH
L5	1-414-754-11	s INDUCTOR 10.0UH
L6	1-414-754-11	s INDUCTOR 10.0UH
L7	1-414-754-11	s INDUCTOR 10.0UH
L8	1-414-754-11	s INDUCTOR 10.0UH
L9	1-414-754-11	s INDUCTOR 10.0UH
Q1	8-729-117-32	s TRANSISTOR 2SC4177
Q2	8-729-117-32	s TRANSISTOR 2SC4177
Q3	8-729-013-37	s TRANSISTOR 2SC4213-AB-TE85L
Q4	8-729-143-07	s TRANSISTOR 2SA1610-Y33
Q5	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q6	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q7	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q8	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q9	8-729-117-32	s TRANSISTOR 2SC4177
Q10	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q11	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q12	8-729-143-07	s TRANSISTOR 2SA1610-Y33
Q13	8-729-143-07	s TRANSISTOR 2SA1610-Y33
Q14	8-729-118-56	s FET 2SK852-X2
Q15	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q16	8-729-117-32	s TRANSISTOR 2SC4177
Q17	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q18	8 729 904 41	s TRANSISTOR FMY3
Q19	8-729-117-32	s TRANSISTOR 2SC4177
Q20	8-729-117-32	s TRANSISTOR 2SC4177
Q21	8-729-904-41	s TRANSISTOR FMY3
Q22	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q23	8-729-027-38	s TRANSISTOR DTA144EAK-T146
Q24	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q25	8-729-027-38	s TRANSISTOR DTA144EAK-T146
Q26	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q27	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q28	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q29	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q30	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q31	8-729-117-32	s TRANSISTOR 2SC4177
R1	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R2	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R3	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R4	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R5	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R6	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R7	1-218-672-11	s RESISTOR,CHIP 150 1/16W(1608)
R8	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R10	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R11	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R12	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R13	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R14	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R15	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R16	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R17	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R18	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R19	1-218-686-11	s RESISTOR CHIP 560 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R20	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R22	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R23	1-218-682-11	s RESISTOR CHIP 390 1/16W (1608)
R24	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R25	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R26	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R29	1-218-696-11	s RESISTOR CHIP 1.5K 1/16W(1608)
R30	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R32	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R33	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R34	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R35	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R37	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R38	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R39	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R41	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R42	1-218-690-11	s RESISTOR CHIP 820 1/16W (1608)
R43	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R44	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R45	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R46	1-218-711-11	s RESISTOR,METAL 6.2K 1/16W
R47	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R48	1-218-725-11	s RESISTOR,CHIP 24K 1/16W(1608)
R49	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R52	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R53	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R54	1 218 716 11	s RESISTOR,CHIP 10K 1/16W(1608)
R55	1-218-690-11	s RESISTOR CHIP 820 1/16W (1608)
R56	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R58	1-216-855-11	s RESISTOR,CHIP 680K 1/16W 1608
R59	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R60	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R61	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R62	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R63	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R64	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R65	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R66	1-216-863-11	s RESISTOR,CHIP 3.3M 1/16W 1608
R67	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R68	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R69	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R70	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R71	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R72	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R73	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R74	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R75	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R76	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R77	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R78	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R79	1-218-696-11	s RESISTOR CHIP 1.5K 1/16W(1608)
R80	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R81	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R82	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R83	1-218-714-11	s RESISTOR,CHIP 8.2K 1/16W(1608)
R84	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R85	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R86	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R87	1-218-711-11	s RESISTOR,METAL 6.2K 1/16W

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Ref. No. or Q'ty	Part No.	SP	Description
R88	1-218-699-11	s	RESISTOR,CHIP 2.0K 1/16W(1608)
R90	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R91	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R92	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R93	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R94	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R95	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R96	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R97	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R100	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R102	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R103	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R105	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R108	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R110	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R111	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R113	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R114	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R115	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R116	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R117	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R118	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R119	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R120	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R121	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R122	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R123	1 218 676 11	s	RESISTOR,CHIP 220 1/16W(1608)
R124	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R125	1-216-852-11	s	RESISTOR,CHIP 390K 1/16W 1608
R126	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R127	1-218-713-11	s	RESISTOR,METAL 7.5K 1/16W
R128	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R129	1-218-737-11	s	RESISTOR,METAL 75K 1/16
R130	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R131	1-218-726-11	s	RESISTOR,CHIP 27K 1/16W (1608)
R132	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R133	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R134	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R135	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R137	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R138	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R139	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R140	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R141	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R142	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R147	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R148	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R149	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R150	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R151	1-218-711-11	s	RESISTOR,METAL 6.2K 1/16W
R152	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R153	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R154	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R156	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R157	1-218-715-11	s	RESISTOR,METAL 9.1K 1/16W
R158	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R159	1-216-861-11	s	RESISTOR,CHIP 2.2M 1/16W 1608
R160	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R161	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R162	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R163	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R164	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R165	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R166	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R167	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R168	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R169	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R170	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R171	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R172	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R173	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R174	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R175	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R176	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R177	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R178	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R179	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R180	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R181	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R182	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R183	1-218-729-11	s	RESISTOR,CHIP 36K 1/16W(1608)
R184	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R199	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R200	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R201	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R202	1 218 668 11	s	RESISTOR,CHIP 100 1/16W (1608)
R203	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R204	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R205	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R206	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R207	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R208	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R209	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R210	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R211	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R212	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R213	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R214	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R215	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R216	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R217	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R218	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R219	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R220	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R221	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R222	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R223	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R224	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R225	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R226	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R227	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R228	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R229	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R230	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R231	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R232	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R233	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R234	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R235	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R236	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R237	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R238	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R239	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R240	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R241	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R242	1-218-752-11	s RESISTOR,CHIP 330K 1/16W(1608)
R243	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R244	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R245	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)
R246	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R247	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R248	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R252	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)
R254	1-218-696-11	s RESISTOR CHIP 1.5K 1/16W(1608)
R255	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R256	1-218-696-11	s RESISTOR CHIP 1.5K 1/16W(1608)
R257	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R258	1-218-664-11	s RESISTOR,CHIP 68 1/16W (1608)
R259	1-218-715-11	s RESISTOR,METAL 9.1K 1/16W
R260	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
RB1	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB2	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB3	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB4	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB5	1 233 936 11	s NETWORK RESISTOR 10 (1608)
RB6	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB7	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB8	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB9	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB10	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB11	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB12	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB13	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB14	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB15	1-239-309-11	s RESISTOR ARRAY,CHIP 100K

DM-114 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-714-A	o MOUNTED CIRCUIT BOARD, DM-114
2pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
6pcs	7-682-902-11	s SCREW +PWH 2.6X5 (EP-FE/ZN/CM2)
C101	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C102	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C103	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C104	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C105	1-162-918-11	s CAPACITOR,CERAMIC 18PF/50V CH
C107	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C108	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C109	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C110	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C111	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C113	1-164-380-11	s CAPACITOR,CERAMIC 51PF CH (M-)
C114	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C115	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C116	1-162-924-11	s CAPACITOR,CERAMIC 56PF/50V CH
C117	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C118	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C119	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C120	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C121	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C122	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C123	1-164-238-11	s CAPACITOR,CERAMIC 36PF/50V CH
C124	1-162-924-11	s CAPACITOR,CERAMIC 56PF/50V CH
C125	1 164 227 11	s CAPACITOR,CERAMIC 0.022MF/25V
C126	1-162-925-11	s CAPACITOR,CERAMIC 68PF/50V CH
C127	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C128	1-164-238-11	s CAPACITOR,CERAMIC 36PF/50V CH
C129	1-162-924-11	s CAPACITOR,CERAMIC 56PF/50V CH
C130	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C131	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C132	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C133	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C134	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C135	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C136	1-164-380-11	s CAPACITOR,CERAMIC 51PF CH (M-)
C137	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C138	1-162-917-11	s CAPACITOR,CERAMIC 15PF/50V CH
C139	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C140	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C141	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C142	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C143	1-164-378-11	s CAPACITOR CERAMIC 30PF/50V CH
C144	1-164-379-11	s CAPACITOR,CERAMIC 43PF/50V CH
C145	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C146	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C147	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C148	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C149	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C150	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C151	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C152	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C153	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C154	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C155	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C156	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C157	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C158	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C159	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C160	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C161	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C162	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C163	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C164	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C165	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C166	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C167	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C168	1-164-383-11	s	CAPACITOR,CERAMIC 110PF/50V CH
C169	1-164-384-11	s	CAPACITOR,CERAMIC 130PF/50V CH
C170	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C171	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C172	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C173	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C174	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C175	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C176	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C177	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C178	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C179	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C180	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C181	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C182	1-162-910-11	s	CAPACITOR,CERAMIC 5PF/50V 1608
C183	1-162-910-11	s	CAPACITOR,CERAMIC 5PF/50V 1608
C184	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C185	1-126-401-11	s	CAPACITOR,ELECT 1MF/50V(CHIP)
C186	1-126-401-11	s	CAPACITOR,ELECT 1MF/50V(CHIP)
C187	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C188	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C190	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C191	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C192	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C193	1-162-913-11	s	CAPACITOR,CHIP CERAMIC 8PF/50V
C194	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C195	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C196	1-126-401-11	s	CAPACITOR,ELECT 1MF/50V(CHIP)
C197	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C198	1-162-959-11	s	CAPACITOR,CERAMIC 330PF/50V SL
C199	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C200	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C302	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C303	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C304	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C305	1-162-921-11	s	CAPACITOR,CERAMIC 33PF/50V CH
C306	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C307	1-162-921-11	s	CAPACITOR,CERAMIC 33PF/50V CH
C308	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C309	1-162-918-11	s	CAPACITOR,CERAMIC 18PF/50V CH
C310	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C311	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C312	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C313	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C314	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C315	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C316	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C317	1-162-922-11	s	CAPACITOR,CERAMIC 39PF/50V CH
C318	1-164-380-11	s	CAPACITOR,CERAMIC 51PF CH (M-)
C319	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C320	1-162-926-11	s	CAPACITOR,CERAMIC 82PF/50V CH
C321	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C322	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C323	1-162-922-11	s	CAPACITOR,CERAMIC 39PF/50V CH
C324	1-164-380-11	s	CAPACITOR,CERAMIC 51PF CH (M-)
C325	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C326	1-164-217-11	s	CAPACITOR,CERAMIC 150PF/50V CH
C327	1-162-910-11	s	CAPACITOR,CERAMIC 5PF/50V 1608
C328	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C329	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C330	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C331	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C332	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C333	1-164-382-11	s	CAPACITOR,CHIP CERAMIC 91PF/50
C334	1-164-380-11	s	CAPACITOR,CERAMIC 51PF CH (M-)
C335	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C336	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C337	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C338	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C339	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C340	1-162-975-11	s	CAPACITOR,CERAMIC 24PF/50V CH
C341	1-164-380-11	s	CAPACITOR,CERAMIC 51PF CH (M-)
C342	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C343	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C344	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C345	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C346	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C347	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C348	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C349	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C350	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C351	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C352	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C353	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C354	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C355	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C356	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C357	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C358	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C359	1-164-385-11	s	CAPACITOR,CERAMIC 160PF/50V
C360	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C361	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C362	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C363	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C364	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C365	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C366	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C367	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C368	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C369	1-162-913-11	s	CAPACITOR,CHIP CERAMIC 8PF/50V
C370	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C371	1-162-913-11	s	CAPACITOR,CHIP CERAMIC 8PF/50V
C372	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V

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Ref. No. or Q'ty	Part No.	SP Description
C373	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C374	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C375	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C377	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C378	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C379	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C380	1-162-913-11	s CAPACITOR,CHIP CERAMIC 8PF/50V
C381	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C382	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C383	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C384	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C385	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C386	1-162-959-11	s CAPACITOR,CERAMIC 330PF/50V SL
C387	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C388	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C389	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C501	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C502	1-135-177-21	s CAPACITOR TANTALUM 1MF/25V
C503	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C505	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C506	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C507	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C508	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C509	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C510	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C511	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C512	1 164 227 11	s CAPACITOR,CERAMIC 0.022MF/25V
C513	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C514	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C515	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C516	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C517	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C518	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C519	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C520	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C521	1-104-922-21	s CAPACITOR,MINITURE MOLDMICA
C522	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C523	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C524	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C525	1-126-398-11	s CAPACITOR ELECT 4.7MF/35V(CHIP)
C526	1-162-908-11	s CAPACITOR,CERAMIC 3PF/50V 1608
C527	1-162-912-11	s CAPACITOR,CERAMIC 7PF/50V 1608
C528	1-162-909-11	s CAPACITOR,CERAMIC 4.0PF/50V CH
C529	1-164-238-11	s CAPACITOR,CERAMIC 36PF/50V CH
C530	1-164-379-11	s CAPACITOR,CERAMIC 43PF/50V CH
C531	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C532	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C533	1-126-390-11	s CAPACITOR ELECT 22MF/6.3V(105)
C534	1-135-180-21	s CAPACITOR TANTALUM 3.3MF/10V
C537	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C538	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C539	1-135-177-21	s CAPACITOR TANTALUM 1MF/25V
C540	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C541	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C542	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C543	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C544	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C545	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C550	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP Description
C551	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C552	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C553	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C554	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C555	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C556	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C557	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C558	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C559	1-164-160-11	s CAPACITOR,CERAMIC 20PF/50V CH
C560	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C561	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C562	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C563	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C564	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C565	1-162-920-11	s CAPACITOR,CERAMIC 27PF/50V CH
C566	1-135-070-00	s CAPACITOR TANTALUM 0.1MF/35V
C567	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C568	1-162-920-11	s CAPACITOR,CERAMIC 27PF/50V CH
C569	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C570	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C571	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C701	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C702	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C703	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C704	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C705	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C706	1 126 391 11	s CAPACITOR ELECT 47MF/6.3V(105)
C707	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C708	1-104-922-21	s CAPACITOR,MINITURE MOLDMICA
C709	1-126-398-11	s CAPACITOR ELECT 4.7MF/35V(CHIP)
C710	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C711	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C712	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C713	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C714	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C715	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C716	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C717	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C718	1-126-390-11	s CAPACITOR ELECT 22MF/6.3V(105)
C719	1-135-180-21	s CAPACITOR TANTALUM 3.3MF/10V
C720	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C721	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C722	1-135-177-21	s CAPACITOR TANTALUM 1MF/25V
C723	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C724	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C725	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C726	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C727	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C728	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C729	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C730	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C731	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C732	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C733	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C734	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C735	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C736	1-164-160-11	s CAPACITOR,CERAMIC 20PF/50V CH
C737	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C738	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C739	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C740	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C741	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C742	1-162-920-11	s	CAPACITOR, CERAMIC 27PF/50V CH
C743	1-135-070-00	s	CAPACITOR TANTALUM 0.1MF/35V
C744	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C745	1-162-920-11	s	CAPACITOR, CERAMIC 27PF/50V CH
C746	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C747	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C901	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C902	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C903	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C904	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C905	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C906	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C907	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C908	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C909	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C910	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C911	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C912	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C913	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C914	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C915	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C916	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C917	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C918	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C919	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C920	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C921	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C922	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C923	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C924	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C925	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C926	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C927	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C928	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C929	1-126-393-11	s	CAPACITOR ELECT 33MF/10V (CHIP)
C930	1-113-981-11	s	CAPACITOR TANTALUM 22MF/20V
C931	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C932	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C933	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C934	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C935	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C936	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C937	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C938	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C939	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C940	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C941	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C942	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C943	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C944	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C945	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C946	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C947	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C948	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C949	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C950	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C951	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C952	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C953	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C954	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C955	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C956	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C957	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C958	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C959	1-104-823-11	s	CAPACITOR, CHIP TANTAL 47MF/16V
C960	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C961	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C962	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C963	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C964	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C965	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C1101	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1102	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1103	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1105	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C1106	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1107	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V (105)
C1108	1-135-070-00	s	CAPACITOR TANTALUM 0.1MF/35V
C1109	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1110	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C1111	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1112	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1113	1-135-070-00	s	CAPACITOR TANTALUM 0.1MF/35V
C1114	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1115	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1116	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1117	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1118	1-104-852-11	s	CAPACITOR, TANTALUM 22MF/10V
C1119	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C1121	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C1122	1-104-852-11	s	CAPACITOR, TANTALUM 22MF/10V
C1123	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1125	1-162-928-11	s	CAPACITOR, CERAMIC 120PF/50V CH
C1126	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1128	1-162-915-11	s	CAPACITOR, CERAMIC 10PF/50V CH
C1129	1-117-372-11	s	CAP, ELECT (SMD) 100MF/10V
C1130	1-117-372-11	s	CAP, ELECT (SMD) 100MF/10V
C1131	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C1132	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1133	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1134	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1135	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1136	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1138	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1139	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1140	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1141	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1142	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1143	1-104-852-11	s	CAPACITOR, TANTALUM 22MF/10V
C1144	1-104-852-11	s	CAPACITOR, TANTALUM 22MF/10V
C1145	1-104-852-11	s	CAPACITOR, TANTALUM 22MF/10V
C1146	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1147	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1148	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1149	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V

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C1201	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1202	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1203	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V (105)
C1204	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1205	1-135-070-00	s CAPACITOR TANTALUM 0.1MF/35V
C1206	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1207	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C1208	1-135-070-00	s CAPACITOR TANTALUM 0.1MF/35V
C1209	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1210	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1211	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1212	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C1213	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C1214	1-104-852-11	s CAPACITOR,TANTALUM 22MF/10V
C1215	1-135-177-21	s CAPACITOR TANTALUM 1MF/25V
C1217	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C1218	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1220	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C1222	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C1223	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1224	1-117-372-11	s CAP,ELECT (SMD) 100MF/10V
C1225	1-117-372-11	s CAP,ELECT (SMD) 100MF/10V
C1226	1-117-373-11	s CAPACITOR, (SMD) 150MF/6.3V
C1227	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1228	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1229	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1230	1-164-217-11	s CAPACITOR,CERAMIC 150PF/50V CH
C1232	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1233	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1234	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1235	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1236	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1237	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1301	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1302	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1303	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1304	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1305	1-162-917-11	s CAPACITOR,CERAMIC 15PF/50V CH
C1306	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1307	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1308	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1309	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1310	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1311	1-162-959-11	s CAPACITOR,CERAMIC 330PF/50V SL
C1312	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C1313	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1314	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1316	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1317	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1318	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1319	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C1320	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1321	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1322	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1323	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1324	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1325	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1326	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1327	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP Description
C1328	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1329	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1330	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1331	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1332	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1401	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1402	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1403	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1404	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C1405	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1406	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1407	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C1408	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1409	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1410	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1411	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1412	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1413	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1414	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1415	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1416	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1417	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1418	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1419	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1420	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C1421	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1422	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1423	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1424	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C1425	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C1426	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C1427	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1428	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1429	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1430	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1431	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1432	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1433	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1434	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1435	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C1436	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1437	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1438	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1439	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1440	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1441	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1442	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1443	1-135-149-21	s CAPACITOR TANTALUM 2.2MF/10V
C1444	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1445	1-135-149-21	s CAPACITOR TANTALUM 2.2MF/10V
C1446	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1447	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1448	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1449	1-135-210-11	s CAPACITOR TANTAL 4.7MF/10V
C1450	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1451	1-135-210-11	s CAPACITOR TANTAL 4.7MF/10V
C1452	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1453	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1454	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V

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C1455	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1456	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1457	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1458	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1459	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C1460	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1461	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1462	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1463	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1464	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1501	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1502	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1503	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1504	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1505	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1506	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1507	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1508	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1509	1-162-917-11	s	CAPACITOR, CERAMIC 15PF/50V CH
C1510	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C1511	1-162-928-11	s	CAPACITOR, CERAMIC 120PF/50V CH
C1512	1-162-959-11	s	CAPACITOR, CERAMIC 330PF/50V SL
C1513	1-162-915-11	s	CAPACITOR, CERAMIC 10PF/50V CH
C1514	1-162-910-11	s	CAPACITOR, CERAMIC 5PF/50V 1608
C1515	1-162-916-11	s	CAPACITOR, CERAMIC 12PF/50V CH
C1516	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1517	1 162 916 11	s	CAPACITOR, CERAMIC 12PF/50V CH
C1518	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C1519	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1521	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1522	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1523	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1524	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1525	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1526	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1527	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1528	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1529	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1530	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1531	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1532	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C1533	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1534	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1535	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1536	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C1601	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V (CHIP)
C1602	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V (CHIP)
C1603	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1604	1-162-915-11	s	CAPACITOR, CERAMIC 10PF/50V CH
C1605	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C1606	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1607	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1608	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C1609	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C1610	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C1611	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1612	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C1613	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C1614	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)

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Ref. No. or Q'ty	Part No.	SP	Description
C1615	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V (CHIP)
C1616	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1617	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1618	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V (CHIP)
C1619	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1620	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1621	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1622	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1623	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1624	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1625	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C1626	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1627	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C1628	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C1629	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1630	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1631	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1632	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1633	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1634	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1635	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1636	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1637	1-162-928-11	s	CAPACITOR, CERAMIC 120PF/50V CH
C1638	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1639	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1640	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1641	1 107 826 11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1642	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1643	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1644	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1645	1-135-149-21	s	CAPACITOR TANTALUM 2.2MF/10V
C1646	1-135-146-21	s	CAPACITOR TANTALUM 0.68MF/25V
C1647	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1648	1-135-149-21	s	CAPACITOR TANTALUM 2.2MF/10V
C1649	1-135-146-21	s	CAPACITOR TANTALUM 0.68MF/25V
C1650	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C1651	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1652	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1653	1-135-210-11	s	CAPACITOR TANTAL 4.7MF/10V
C1654	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1655	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1656	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1657	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1658	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1659	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1660	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C1661	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1662	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1663	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1664	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1665	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1666	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1667	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1701	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1702	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1703	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1704	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1705	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1706	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP Description
C1707	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1708	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1709	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1710	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1711	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1712	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C1713	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1714	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C1715	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1716	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1717	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1718	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1719	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1720	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1721	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1722	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1723	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1724	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1725	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1726	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1727	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1728	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1729	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1730	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1731	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1732	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1733	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1734	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1735	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1736	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1737	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1738	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1739	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1740	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C1741	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1742	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1743	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1800	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1801	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1802	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1803	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C1804	1-104-608-11 s	CAPACITOR,ELECT 33MF/6.3V
C1805	1-104-608-11 s	CAPACITOR,ELECT 33MF/6.3V
C1806	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1807	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1808	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C1809	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1810	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C1811	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C1812	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C1813	1-104-608-11 s	CAPACITOR,ELECT 33MF/6.3V
C1814	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C1815	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1816	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C1817	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1818	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C1819	1-104-608-11 s	CAPACITOR,ELECT 33MF/6.3V
C1820	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1821	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP Description
C1822	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1824	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C1825	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1826	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1827	1-104-608-11 s	CAPACITOR,ELECT 33MF/6.3V
C1828	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1829	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1830	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1831	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1832	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C1833	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C1834	1-104-852-11 s	CAPACITOR,TANTALUM 22MF/10V
C1835	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1837	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1838	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1839	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1840	1-104-852-11 s	CAPACITOR,TANTALUM 22MF/10V
C1841	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1842	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1843	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1844	1-104-608-11 s	CAPACITOR,ELECT 33MF/6.3V
C1845	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1846	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1847	1-135-180-21 s	CAPACITOR TANTALUM 3.3MF/10V
C1848	1-135-180-21 s	CAPACITOR TANTALUM 3.3MF/10V
C1849	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1850	1-135-072-21 s	CAPACITOR,TANTALUM 0.22MF/35V
C1851	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1852	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C1853	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1854	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1855	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1856	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1857	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1858	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1859	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1860	1-162-921-11 s	CAPACITOR,CERAMIC 33PF/50V CH
C1861	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1862	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1863	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1864	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1865	1-162-921-11 s	CAPACITOR,CERAMIC 33PF/50V CH
C1866	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1867	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1868	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1869	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1870	1-162-970-11 s	CAPACITOR CERAMIC 0.01MF/25V B
C1871	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1872	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C1873	1-104-608-11 s	CAPACITOR,ELECT 33MF/6.3V
C1874	1-164-230-11 s	CAPACITOR,CERAMIC 220PF/50V
C1875	1-164-315-11 s	CAPACITOR,CERAMIC 470PF/50V CH
C1876	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C1877	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1878	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1879	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1880	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1881	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C1882	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
CN1	1-580-057-11	o	PIN,CONNECTOR 4P
CN100	1-784-200-11	o	CONNECTOR, BOARD TO BOARD 140P
D101	8-719-941-23	s	DIODE DA204U
D301	8-719-941-23	s	DIODE DA204U
D501	8-719-024-81	s	DIODE 1SS300-TE85L
D502	8-719-024-81	s	DIODE 1SS300-TE85L
D503	8-719-941-23	s	DIODE DA204U
D504	8-719-404-35	s	DIODE MA141WK
D505	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D701	8-719-024-81	s	DIODE 1SS300-TE85L
D702	8-719-941-23	s	DIODE DA204U
D703	8-719-404-35	s	DIODE MA141WK
D704	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D901	8-719-991-27	s	LED CL-170G-CD
D902	8-719-941-04	s	DIODE SB007-03CP
D903	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D904	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D905	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D906	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D907	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D908	8-719-029-55	s	ZENER DIODE RD2.0UH-T1
D1101	8-719-941-23	s	DIODE DA204U
D1103	8-719-404-35	s	DIODE MA141WK
D1104	8-719-941-23	s	DIODE DA204U
D1201	8-719-941-23	s	DIODE DA204U
D1204	8-719-941-23	s	DIODE DA204U
D1301	8-719-941-23	s	DIODE DA204U
D1401	8-719-941-23	s	DIODE DA204U
D1402	8-719-941-23	s	DIODE DA204U
D1405	8-719-041-39	s	DIODE KV1470 (5MA)
D1406	8-719-041-39	s	DIODE KV1470 (5MA)
D1501	8-719-941-23	s	DIODE DA204U
D1502	8-719-024-81	s	DIODE 1SS300-TE85L
D1601	8-719-941-23	s	DIODE DA204U
D1602	8-719-941-23	s	DIODE DA204U
D1603	8-719-041-39	s	DIODE KV1470 (5MA)
D1604	8-719-041-39	s	DIODE KV1470 (5MA)
D1701	8-719-404-35	s	DIODE MA141WK
D1702	8-719-024-81	s	DIODE 1SS300-TE85L
D1703	8-719-024-81	s	DIODE 1SS300-TE85L
D1704	8-719-024-81	s	DIODE 1SS300-TE85L
D1705	8-719-024-81	s	DIODE 1SS300-TE85L
D1801	8-719-024-81	s	DIODE 1SS300-TE85L
D1802	8-719-991-27	s	LED CL-170G-CD
D1803	8-719-941-23	s	DIODE DA204U
D1808	8-719-941-86	s	DIODE DAN202U
D1809	8-719-941-09	s	DIODE DAP202U
D1810	8-719-941-09	s	DIODE DAP202U
D1910	8-719-938-72	s	DIODE SB01-05CP (RECTI)
FL101	1-416-645-11	s	DELAY LINE
FL103	1-416-478-11	s	DELAY LINE
FL301	1-416-646-11	s	DELAY LINE
FL303	1-416-480-11	s	DELAY LINE
FL502	1-234-001-11	s	FILTER, LOW PASS
FL503	1-234-000-11	s	FILTER, LOW PASS
FL504	1-234-010-11	s	FILTER, LOW PASS
FL702	1-234-008-11	s	FILTER, LOW PASS
FL703	1-234-004-11	s	FILTER, LOW PASS

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Ref. No. or Q'ty	Part No.	SP	Description
FL1101	1-234-009-11	s	FILTER, LOW PASS
FL1201	1-234-003-11	s	FILTER, LOW PASS
IC101	8-752-052-75	s	IC CXA1479Q
IC102	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC103	8-759-112-53	s	IC UPC1663G
IC104	8-759-058-64	s	IC TC7S32FU-TE85R
IC105	8-752-052-73	s	IC CXA1451M
IC106	8-759-523-01	s	IC TC74HC4052AFT (EL)
IC108	8-759-287-54	s	IC TL084CPW (E20)
IC109	8-759-523-78	s	IC TC74VHC00FT (EL)
IC110	8-759-058-62	s	IC TC7S08FU-TE85R
IC111	8-759-058-62	s	IC TC7S08FU-TE85R
IC301	8-759-242-78	s	IC TC7W02F
IC302	8-752-052-75	s	IC CXA1479Q
IC303	8-759-927-46	s	IC SN74HC00ANS
IC304	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC305	8-752-052-73	s	IC CXA1451M
IC308	8-759-287-54	s	IC TL084CPW (E20)
IC309	8-759-082-58	s	IC TC7W08FU
IC310	8-759-058-56	s	IC TC7S02FU (TE85R)
IC311	8-759-058-62	s	IC TC7S08FU-TE85R
IC501	8-759-058-58	s	IC TC7S04FU-TE85R
IC502	8-759-082-59	s	IC TC7W32FU
IC503	8-759-359-66	s	IC TL082CPW (E05)
IC504	8-752-061-02	s	IC CXA1450M
IC505	8-752-052-48	s	IC CXA1370Q
IC506	8-759-058-58	s	IC TC7S04FU TE85R
IC508	1-810-128-11	s	IC BP-015
IC511	8-752-052-73	s	IC CXA1451M
IC512	8-759-260-53	s	IC LM2903PW-E05
IC513	8-759-012-00	s	IC MC10H116M
IC701	8-759-082-59	s	IC TC7W32FU
IC702	8-752-052-48	s	IC CXA1370Q
IC703	1-810-128-11	s	IC BP-015
IC704	8-759-260-53	s	IC LM2903PW-E05
IC705	8-752-052-73	s	IC CXA1451M
IC706	8-759-012-00	s	IC MC10H116M
IC710	8-759-058-62	s	IC TC7S08FU-TE85R
IC901	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC902	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC903	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC904	8-759-082-61	s	IC TC4W53FU
IC905	8-759-635-27	s	IC M62352GP
IC906	8-759-635-27	s	IC M62352GP
IC907	8-759-523-03	s	IC TC74HC4066AFT (EL)
IC908	8-759-263-32	s	IC UPD78011BGC-608-AB8
IC909	8-759-488-17	s	IC BR93LC46F-E2
IC910	8-759-485-79	s	IC TC7SET08FU (TE85L)
IC911	8-759-388-62	s	IC NJU7062M (TE2)
IC913	8-759-172-41	s	IC L78M09T-TL
IC914	8-759-337-40	s	IC NJM2904V (TE2)
IC915	8-759-337-40	s	IC NJM2904V (TE2)
IC916	8-759-337-40	s	IC NJM2904V (TE2)
IC917	8-759-710-88	s	IC NJM431U
IC918	8-759-710-88	s	IC NJM431U
IC919	8-759-710-88	s	IC NJM431U
IC920	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC921	8-729-045-28	s	TRANSISTOR SI4532DY-T1

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Ref. No. or Q'ty	Part No.	SP Description
IC922	8-729-045-28	s TRANSISTOR SI4532DY-T1
IC1101	8-759-082-57	s IC TC7W04FU
IC1102	8-759-702-08	s IC NJM360M
IC1103	8-759-287-54	s IC TL084CPW (E20)
IC1104	8-759-082-60	s IC TC7S66FU
IC1105	8-759-082-61	s IC TC4W53FU
IC1106	8-759-082-58	s IC TC7W08FU
IC1107	8-759-337-40	s IC NJM2904V (TE2)
IC1108	8-752-376-32	s IC CXD2310AR
IC1109	8-752-362-70	s IC CXD101-106Q
IC1110	8-759-337-40	s IC NJM2904V (TE2)
IC1111	8-759-710-88	s IC NJM431U
IC1112	8-759-710-88	s IC NJM431U
IC1113	8-759-710-88	s IC NJM431U
IC1114	8-759-209-90	s IC TC4S71F
IC1201	8-759-287-54	s IC TL084CPW (E20)
IC1202	8-759-082-60	s IC TC7S66FU
IC1203	8-759-082-61	s IC TC4W53FU
IC1207	8-752-376-32	s IC CXD2310AR
IC1208	8-752-362-70	s IC CXD101-106Q
IC1214	8-759-209-90	s IC TC4S71F
IC1301	8-752-358-08	s IC CXD2221Q
IC1302	8-759-359-66	s IC TL082CPW (E05)
IC1303	8-759-082-60	s IC TC7S66FU
IC1304	8-759-973-82	s IC TLC549IPS
IC1305	8-759-395-37	s IC XRD7523AID-JTR
IC1306	8-759-359-66	s IC TL082CPW (E05)
IC1307	8-759-082-59	s IC TC7W32FU
IC1402	8-759-287-54	s IC TL084CPW (E20)
IC1404	8-759-907-81	s IC SN74LS221N(S)
IC1405	8-759-702-08	s IC NJM360M
IC1406	8-759-058-62	s IC TC7S08FU-TE85R
IC1407	8-759-523-03	s IC TC74HC4066AFT (EL)
IC1408	8-759-242-78	s IC TC7W02F
IC1409	8-759-287-54	s IC TL084CPW (E20)
IC1410	8-759-196-93	s IC TC7SH00FU-TE85R
IC1411	8-759-196-93	s IC TC7SH00FU-TE85R
IC1501	8-752-358-08	s IC CXD2221Q
IC1502	8-759-287-54	s IC TL084CPW (E20)
IC1503	8-759-082-60	s IC TC7S66FU
IC1504	8-759-973-82	s IC TLC549IPS
IC1505	8-759-395-37	s IC XRD7523AID-JTR
IC1506	8-759-359-66	s IC TL082CPW (E05)
IC1507	8-759-196-93	s IC TC7SH00FU-TE85R
IC1510	8-759-196-93	s IC TC7SH00FU-TE85R
IC1601	8-759-184-64	s IC TC4W66FU
IC1603	8-759-260-53	s IC LM2903PW-E05
IC1604	8-759-082-61	s IC TC4W53FU
IC1605	8-759-287-54	s IC TL084CPW (E20)
IC1606	8-759-523-03	s IC TC74HC4066AFT (EL)
IC1608	8-759-702-08	s IC NJM360M
IC1609	8-759-907-81	s IC SN74LS221N(S)
IC1610	8-759-058-62	s IC TC7S08FU-TE85R
IC1611	8-759-242-78	s IC TC7W02F
IC1612	8-759-359-66	s IC TL082CPW (E05)
IC1614	8-759-524-19	s IC TC74VHC164FT (EL)
IC1701	8-759-058-64	s IC TC7S32FU-TE85R
IC1702	8-759-194-81	s IC CXD8395AQ
IC1703	8-759-194-81	s IC CXD8395AQ

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Ref. No. or Q'ty	Part No.	SP Description
IC1704	8-752-359-55	s IC CXK48324R
IC1705	8-752-359-55	s IC CXK48324R
IC1706	8-759-277-63	s IC TC7W14FU (TE12R)
IC1707	8-759-523-94	s IC TC74VHC32FT (EL)
IC1708	8-752-341-32	s IC CXD2209Q
IC1709	8-759-524-22	s IC TC74VHC175FT (EL)
IC1710	8-759-523-95	s IC TC74VHC74FT (EL)
IC1711	8-759-524-18	s IC TC74VHC163FT (EL)
IC1712	8-752-341-32	s IC CXD2209Q
IC1713	8-752-341-32	s IC CXD2209Q
IC1714	8-759-399-52	s IC CXD8935BQ
IC1715	8-759-277-63	s IC TC7W14FU (TE12R)
IC1716	8-759-524-10	s IC TC74VHC157FT (EL)
IC1717	8-759-196-96	s IC TC7SH08FU (TE85R)
IC1800	8-759-082-58	s IC TC7W08FU
IC1801	8-759-491-51	s IC TC74VHCT245AFT (EL)
IC1802	8-759-490-41	s IC TC74VHCT541AFT (EL)
IC1803	8-759-082-58	s IC TC7W08FU
IC1804	8-759-523-84	s IC TC74VHC14FT (EL)
IC1805	8-759-387-54	s IC S-80727-SN-DQ-T1
IC1806	8-759-058-62	s IC TC7S08FU-TE85R
IC1807	8-759-083-94	s IC TC7W74FU
IC1808	8-759-582-56	s IC UPD78014FGC-639-AB8
IC1809	8-759-702-08	s IC NJM360M
IC1810	8-759-195-81	s IC TC7S86FU
IC1811	8-759-058-62	s IC TC7S08FU-TE85R
IC1812	8-759-488-17	s IC BR93LC46F E2
IC1813	8-759-395-37	s IC XRD7523AID-JTR
IC1814	8-759-295-09	s IC TLC2932IPW
IC1815	8-759-710-88	s IC NJM431U
IC1816	8-759-195-81	s IC TC7S86FU
IC1817	8-759-278-58	s IC NJM4558V (TE2)
IC1818	8-759-082-60	s IC TC7S66FU
IC1819	8-759-359-66	s IC TL082CPW (E05)
IC1820	8-759-260-53	s IC LM2903PW-E05
IC1821	8-759-082-57	s IC TC7W04FU
IC1822	8-759-058-62	s IC TC7S08FU-TE85R
IC1823	8-759-523-97	s IC TC74VHC123AFT (EL)
IC1824	8-752-356-05	s IC CXD206-104Q
IC1825	8-759-524-50	s IC TC74VHC541FT (EL)
IC1826	8-759-524-50	s IC TC74VHC541FT (EL)
IC1827	8-759-359-66	s IC TL082CPW (E05)
IC1828	8-759-523-97	s IC TC74VHC123AFT (EL)
IC1829	8-752-360-90	s IC CXD303-101Q
IC1830	8-752-355-09	s IC CXD104-114Q
IC1831	8-759-524-52	s IC TC74VHC574FT (EL)
IC1832	8-759-524-52	s IC TC74VHC574FT (EL)
IC1833	8-759-907-81	s IC SN74LS221N(S)
IC1834	8-759-058-64	s IC TC7S32FU-TE85R
L102	1-410-381-11	s CHIP INDUCTOR 10UH (3225)
L103	1-410-369-11	s CHIP INDUCTOR 1.0UH (3225)
L104	1-410-383-31	s INDUCTOR,CHIP 15UH (3225)
L105	1-410-372-21	s CHIP INDUCTOR 1.8UH (3225)
L106	1-410-380-31	s INDUCTOR,CHIP 8.2UH (3225)
L107	1-410-378-11	s INDUCTOR,CHIP 5.6UH (3225)
L108	1-410-379-31	s CHIP INDUCTOR 6.8UH (3225)
L109	1-410-378-11	s INDUCTOR,CHIP 5.6UH (3225)
L110	1-410-379-31	s CHIP INDUCTOR 6.8UH (3225)
L111	1-410-380-31	s INDUCTOR,CHIP 8.2UH (3225)

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Ref. No. or Q'ty	Part No.	SP	Description
L112	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L113	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L114	1-410-377-31	s	INDUCTOR,CHIP 4.7UH (3225)
L115	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L116	1-410-378-11	s	INDUCTOR,CHIP 5.6UH (3225)
L117	1-414-398-11	s	INDUCTOR (SMD) 10UH
L118	1-414-398-11	s	INDUCTOR (SMD) 10UH
L119	1-414-398-11	s	INDUCTOR (SMD) 10UH
L120	1-414-398-11	s	INDUCTOR (SMD) 10UH
L121	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L122	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L123	1-414-398-11	s	INDUCTOR (SMD) 10UH
L124	1-410-382-31	s	INDUCTOR,CHIP 12UH (3225)
L125	1-412-203-11	s	MICRO INDUCTOR 560UH
L301	1-414-398-11	s	INDUCTOR (SMD) 10UH
L302	1-410-379-31	s	CHIP INDUCTOR 6.8UH (3225)
L303	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L304	1-414-398-11	s	INDUCTOR (SMD) 10UH
L305	1-410-379-31	s	CHIP INDUCTOR 6.8UH (3225)
L306	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L307	1-412-282-41	s	INDUCTOR INDUCTOR 470UH (3225)
L308	1-412-282-41	s	INDUCTOR INDUCTOR 470UH (3225)
L309	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L310	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L311	1-414-398-11	s	INDUCTOR (SMD) 10UH
L312	1-414-398-11	s	INDUCTOR (SMD) 10UH
L313	1 410 380 31	s	INDUCTOR,CHIP 8.2UH (3225)
L314	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L315	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L316	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L317	1-414-398-11	s	INDUCTOR (SMD) 10UH
L318	1-410-383-31	s	INDUCTOR,CHIP 15UH (3225)
L319	1-412-203-11	s	MICRO INDUCTOR 560UH
L501	1-414-400-11	s	INDUCTOR, 22UH
L502	1-414-400-11	s	INDUCTOR, 22UH
L503	1-412-282-41	s	INDUCTOR INDUCTOR 470UH (3225)
L504	1-412-206-11	s	MICRO INDUCTOR 1MMH
L505	1-414-400-11	s	INDUCTOR, 22UH
L506	1-414-404-11	s	INDUCTOR (SMD) 100UH
L507	1-414-404-11	s	INDUCTOR (SMD) 100UH
L508	1-414-404-11	s	INDUCTOR (SMD) 100UH
L509	1-414-400-11	s	INDUCTOR, 22UH
L510	1-414-404-11	s	INDUCTOR (SMD) 100UH
L511	1-414-396-21	s	INDUCTOR (SMD) 4.7UH
L512	1-414-398-11	s	INDUCTOR (SMD) 10UH
L513	1-414-404-11	s	INDUCTOR (SMD) 100UH
L514	1-414-404-11	s	INDUCTOR (SMD) 100UH
L701	1-414-400-11	s	INDUCTOR, 22UH
L702	1-414-404-11	s	INDUCTOR (SMD) 100UH
L703	1-414-404-11	s	INDUCTOR (SMD) 100UH
L704	1-414-404-11	s	INDUCTOR (SMD) 100UH
L705	1-414-404-11	s	INDUCTOR (SMD) 100UH
L706	1-414-404-11	s	INDUCTOR (SMD) 100UH
L707	1-414-396-21	s	INDUCTOR (SMD) 4.7UH
L708	1-414-398-11	s	INDUCTOR (SMD) 10UH
L901	1-409-579-11	s	COIL, CHOKE 8.2UH
L902	1-409-579-11	s	COIL, CHOKE 8.2UH
L903	1-409-579-11	s	COIL, CHOKE 8.2UH
L904	1-409-579-11	s	COIL, CHOKE 8.2UH

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Ref. No. or Q'ty	Part No.	SP	Description
L905	1-409-579-11	s	COIL, CHOKE 8.2UH
L906	1-409-579-11	s	COIL, CHOKE 8.2UH
L1101	1-412-193-11	s	MICRO INDUCTOR 68UH
L1102	1-414-400-11	s	INDUCTOR, 22UH
L1103	1-412-196-11	s	MICRO INDUCTOR 150UH
L1104	1-414-400-11	s	INDUCTOR, 22UH
L1105	1-414-400-11	s	INDUCTOR, 22UH
L1106	1-414-400-11	s	INDUCTOR, 22UH
L1201	1-414-400-11	s	INDUCTOR, 22UH
L1202	1-412-196-11	s	MICRO INDUCTOR 150UH
L1203	1-414-400-11	s	INDUCTOR, 22UH
L1204	1-414-400-11	s	INDUCTOR, 22UH
L1205	1-414-400-11	s	INDUCTOR, 22UH
L1301	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1302	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1303	1-412-280-31	s	CHIP INDUCTOR 330UH (3225)
L1304	1-412-204-11	s	MICRO INDUCTOR 680UH
L1305	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1310	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1401	1-410-391-11	s	CHIP INDUCTOR 68UH (3225)
L1402	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1403	1-414-398-11	s	INDUCTOR (SMD) 10UH
L1501	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1502	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1503	1-410-393-11	s	CHIP INDUCTOR 100UH (3225)
L1504	1-410-658-31	s	INDUCTOR,CHIP 220UH (3225)
L1505	1 410 383 31	s	INDUCTOR,CHIP 15UH (3225)
L1506	1-410-387-11	s	CHIP INDUCTOR 33UH (3225)
L1507	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1601	1-410-388-31	s	CHIP INDUCTOR 39UH
L1602	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1603	1-414-398-11	s	INDUCTOR (SMD) 10UH
L1610	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1701	1-414-400-11	s	INDUCTOR, 22UH
L1702	1-414-400-11	s	INDUCTOR, 22UH
L1801	1-414-400-11	s	INDUCTOR, 22UH
L1802	1-414-400-11	s	INDUCTOR, 22UH
L1803	1-410-390-11	s	CHIP INDUCTOR 56UH (3225)
L1804	1-410-390-11	s	CHIP INDUCTOR 56UH (3225)
L1805	1-414-400-11	s	INDUCTOR, 22UH
L1806	1-414-400-11	s	INDUCTOR, 22UH
L1807	1-414-400-11	s	INDUCTOR, 22UH
L1808	1-414-400-11	s	INDUCTOR, 22UH
L1810	1-410-803-11	s	CHIP INDUCTOR 0.047UH (3225)
LV1401	1-406-746-11	s	COIL, VARIABLE
LV1601	1-406-746-11	s	COIL, VARIABLE
Q101	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q102	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q103	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q104	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q105	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q106	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q107	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q108	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q109	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q110	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q111	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q112	8-729-117-73	s	TRANSISTOR 2SC4178-F14

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Ref. No. or Q'ty	Part No.	SP	Description
Q113	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q114	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q115	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q116	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q117	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q118	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q119	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q120	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q121	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q122	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q123	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q124	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q125	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q126	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q127	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q128	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q129	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q130	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q131	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q132	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q133	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q134	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q135	8-729-117-32	s	TRANSISTOR 2SC4177
Q136	8-729-117-32	s	TRANSISTOR 2SC4177
Q137	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q138	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q139	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q140	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q141	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q142	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q143	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q301	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q302	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q303	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q304	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q305	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q306	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q307	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q308	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q309	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q310	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q311	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q312	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q313	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q314	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q315	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q316	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q317	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q318	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q319	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q320	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q321	8-729-117-32	s	TRANSISTOR 2SC4177
Q322	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q501	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q502	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q503	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q504	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q506	8-729-904-41	s	TRANSISTOR FMY3
Q507	8-729-904-41	s	TRANSISTOR FMY3

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Ref. No. or Q'ty	Part No.	SP	Description
Q509	8-729-904-41	s	TRANSISTOR FMY3
Q510	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q511	8-729-117-32	s	TRANSISTOR 2SC4177
Q512	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q513	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q514	8-729-117-32	s	TRANSISTOR 2SC4177
Q515	8-729-117-32	s	TRANSISTOR 2SC4177
Q516	8-729-117-32	s	TRANSISTOR 2SC4177
Q517	8-729-117-32	s	TRANSISTOR 2SC4177
Q518	8-729-117-32	s	TRANSISTOR 2SC4177
Q519	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q520	8-729-117-32	s	TRANSISTOR 2SC4177
Q522	8-729-117-32	s	TRANSISTOR 2SC4177
Q523	8-729-117-32	s	TRANSISTOR 2SC4177
Q524	8-729-117-32	s	TRANSISTOR 2SC4177
Q525	8-729-117-32	s	TRANSISTOR 2SC4177
Q526	8-729-117-32	s	TRANSISTOR 2SC4177
Q704	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q705	8-729-117-32	s	TRANSISTOR 2SC4177
Q706	8-729-117-32	s	TRANSISTOR 2SC4177
Q707	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q708	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q709	8-729-117-32	s	TRANSISTOR 2SC4177
Q710	8-729-117-32	s	TRANSISTOR 2SC4177
Q711	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q712	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q713	8-729-117-32	s	TRANSISTOR 2SC4177
Q714	8-729-117-32	s	TRANSISTOR 2SC4177
Q715	8-729-117-32	s	TRANSISTOR 2SC4177
Q716	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q717	8-729-117-32	s	TRANSISTOR 2SC4177
Q719	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q720	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q721	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q722	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q723	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q901	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q902	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q903	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q904	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q905	8-729-106-60	s	TRANSISTOR 2SB1115A
Q906	8-729-106-68	s	TRANSISTOR 2SD1615A-GP
Q907	8-729-106-60	s	TRANSISTOR 2SB1115A
Q908	8-729-106-68	s	TRANSISTOR 2SD1615A-GP
Q909	8-729-106-60	s	TRANSISTOR 2SB1115A
Q910	8-729-106-68	s	TRANSISTOR 2SD1615A-GP
Q911	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q912	8-729-117-32	s	TRANSISTOR 2SC4177
Q913	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q914	8-729-117-32	s	TRANSISTOR 2SC4177
Q915	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q916	8-729-117-32	s	TRANSISTOR 2SC4177
Q917	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q918	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q919	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q920	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q921	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q922	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1101	8-729-117-32	s	TRANSISTOR 2SC4177

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Ref. No. or Q'ty	Part No.	SP	Description
Q1102	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1103	8-729-117-32	s	TRANSISTOR 2SC4177
Q1104	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1105	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1106	8-729-907-26	s	TRANSISTOR IMX1
Q1107	8-729-904-04	s	TRANSISTOR FMS2
Q1108	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1109	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1110	8-729-907-26	s	TRANSISTOR IMX1
Q1111	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1201	8-729-117-32	s	TRANSISTOR 2SC4177
Q1202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1203	8-729-117-32	s	TRANSISTOR 2SC4177
Q1204	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1205	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1206	8-729-907-26	s	TRANSISTOR IMX1
Q1207	8-729-904-04	s	TRANSISTOR FMS2
Q1208	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1209	8-729-907-26	s	TRANSISTOR IMX1
Q1210	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1301	8-729-907-26	s	TRANSISTOR IMX1
Q1302	8-729-117-32	s	TRANSISTOR 2SC4177
Q1401	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1402	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1403	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1404	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1405	8-729-140-47	s	TRANSISTOR 2SC3735-L-B35
Q1406	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1407	8-729-117-32	s	TRANSISTOR 2SC4177
Q1408	8-729-117-32	s	TRANSISTOR 2SC4177
Q1409	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1410	8-729-117-32	s	TRANSISTOR 2SC4177
Q1411	8-729-117-32	s	TRANSISTOR 2SC4177
Q1412	8-729-117-32	s	TRANSISTOR 2SC4177
Q1501	8-729-907-26	s	TRANSISTOR IMX1
Q1502	8-729-117-32	s	TRANSISTOR 2SC4177
Q1601	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1602	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1603	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1604	8-729-140-47	s	TRANSISTOR 2SC3735-L-B35
Q1605	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1606	8-729-117-32	s	TRANSISTOR 2SC4177
Q1607	8-729-117-32	s	TRANSISTOR 2SC4177
Q1608	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1609	8-729-117-32	s	TRANSISTOR 2SC4177
Q1610	8-729-117-32	s	TRANSISTOR 2SC4177
Q1611	8-729-117-32	s	TRANSISTOR 2SC4177
Q1801	8-729-117-32	s	TRANSISTOR 2SC4177
Q1802	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1803	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1804	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1805	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
R101	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R102	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R103	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R104	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R105	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R106	1-218-671-11	s	RESISTOR,CHIP 130 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R107	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
R108	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
R109	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R110	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R111	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R114	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R115	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R116	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R117	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R118	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R119	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R120	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R121	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R122	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R123	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R125	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R126	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R127	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R128	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R129	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R130	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R131	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R132	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R133	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R134	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R135	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R136	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R137	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R138	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R139	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R140	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R141	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R142	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R143	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R144	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R145	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R146	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
R147	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R148	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R149	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R150	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R151	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R153	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R154	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R155	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R156	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R157	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R158	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R159	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R160	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R161	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R162	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R163	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R164	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R165	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R166	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R167	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R168	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R169	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R170	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R171	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R172	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R173	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R174	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R175	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R176	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R177	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R178	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R179	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R180	1-218-683-11	s RESISTOR CHIP 430 1/16W (1608)
R181	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R182	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R183	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R184	1-218-683-11	s RESISTOR CHIP 430 1/16W (1608)
R185	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R186	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R187	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R188	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R189	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R190	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R191	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R192	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R193	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R194	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R195	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R196	1 218 676 11	s RESISTOR,CHIP 220 1/16W(1608)
R197	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R198	1-218-682-11	s RESISTOR CHIP 390 1/16W (1608)
R199	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R200	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R201	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R202	1-218-681-11	s RESISTOR CHIP 360 1/16W (1608)
R203	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R204	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R205	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R206	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R207	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R208	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R209	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R210	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R211	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R212	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R213	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R214	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R215	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R216	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R217	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R218	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R219	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R220	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R221	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R222	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R223	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R224	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R225	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R228	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R229	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R230	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R231	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R233	1-216-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R234	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R235	1-218-686-11	s RESISTOR CHIP 560 1/16W (1608)
R236	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R237	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R238	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R239	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R240	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R241	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R242	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R243	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R244	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R245	1-218-694-11	s RESISTOR CHIP 1.2K1/16W(1608)
R246	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R247	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R248	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R249	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R250	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R251	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R252	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R253	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R254	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R255	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R256	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R257	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R258	1 218 716 11	s RESISTOR,CHIP 10K 1/16W(1608)
R259	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R260	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R261	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R262	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R263	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R264	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R265	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R266	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R267	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R268	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R269	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R270	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R271	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R272	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R273	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R274	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R275	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R301	1-218-671-11	s RESISTOR,CHIP 130 1/16W (1608)
R302	1-218-670-11	s RESISTOR,CHIP 120 1/16W (1608)
R303	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R304	1-218-664-11	s RESISTOR,CHIP 68 1/16W (1608)
R305	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R306	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R307	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R308	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R309	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R310	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R311	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R312	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R313	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R316	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R317	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R318	1-218-664-11	s	RESISTOR,CHIP 68 1/16W (1608)
R319	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R320	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R321	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R322	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R323	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R324	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R325	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R326	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R328	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R329	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R330	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R331	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R332	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R333	1-218-665-11	s	RESISTOR CHIP 75 1/16W (1608)
R334	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R335	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R337	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R338	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R339	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R340	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R341	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R342	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R343	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R344	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R345	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R346	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R347	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R348	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R349	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R350	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R351	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R352	1-218-683-11	s	RESISTOR CHIP 430 1/16W (1608)
R353	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R354	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R355	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R356	1-218-682-11	s	RESISTOR CHIP 390 1/16W (1608)
R357	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R358	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R360	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R361	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R362	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R363	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R364	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R365	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R366	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R367	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R368	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R369	1-218-682-11	s	RESISTOR CHIP 390 1/16W (1608)
R370	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R371	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R372	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R373	1-218-681-11	s	RESISTOR CHIP 360 1/16W (1608)
R374	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R375	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R376	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R377	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R378	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R379	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R380	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R381	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R382	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R383	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R384	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R385	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R386	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R387	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R388	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R389	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R390	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R391	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R392	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R393	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R396	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R397	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R399	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R400	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R401	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R402	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R403	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R404	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R405	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R406	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R407	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R408	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R409	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R410	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R411	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R412	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R413	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R414	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R415	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R416	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R417	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R418	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R419	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R420	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R421	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R422	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R423	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R424	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R425	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R501	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R502	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R503	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R504	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R505	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R506	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R507	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R508	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R510	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R511	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R512	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R513	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R514	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R515	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R517	1-218-691-11	s	RESISTOR CHIP 910 1/16W (1608)
R518	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R519	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R521	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R522	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R523	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R524	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R525	1-216-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R526	1-216-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R527	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R528	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R529	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R530	1-218-711-11	s RESISTOR,METAL 6.2K 1/16W
R531	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R532	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R533	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R534	1-218-670-11	s RESISTOR,CHIP 120 1/16W (1608)
R535	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R537	1-218-721-11	s RESISTOR,CHIP 16K 1/16W(1608)
R538	1-218-694-11	s RESISTOR,CHIP 1.2K1/16W(1608)
R539	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R540	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R541	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R542	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R543	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R548	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R549	1-218-723-11	s RESISTOR,CHIP 20K 1/16W(1608)
R552	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R553	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R555	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R556	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R557	1-218-721-11	s RESISTOR,CHIP 16K 1/16W(1608)
R559	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R563	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R565	1-218-699-11	s RESISTOR,CHIP 2.0K 1/16W(1608)
R566	1-218-699-11	s RESISTOR,CHIP 2.0K 1/16W(1608)
R568	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R569	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R571	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R573	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R574	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R575	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R576	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R577	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R578	1-218-707-11	s RESISTOR,CHIP 4.3K 1/16W(1608)
R579	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R580	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R581	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R582	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R583	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R585	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R586	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R587	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R588	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R589	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R590	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R591	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R592	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R593	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R594	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R595	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R600	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R603	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R604	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R605	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R606	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R607	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R608	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R609	1-218-719-11	s RESISTOR,METAL 13K 1/16
R610	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R611	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R612	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R613	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R614	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R615	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R616	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R617	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R618	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R619	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R620	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R621	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R622	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R623	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R624	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R625	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R626	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R627	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R628	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R629	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R630	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R631	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R634	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R635	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R636	1-218-687-11	s RESISTOR,CHIP 620 1/16W (1608)
R637	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R638	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R639	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R640	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R641	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R642	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R643	1-218-682-11	s RESISTOR,CHIP 390 1/16W (1608)
R644	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R645	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R646	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R647	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R648	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R649	1-218-747-11	s RESISTOR,METAL 200K 1/16(1608)
R701	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R702	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R703	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R704	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R705	1-216-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R706	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R707	1-218-711-11	s RESISTOR,METAL 6.2K 1/16W
R708	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R709	1-218-711-11	s RESISTOR,METAL 6.2K 1/16W
R710	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R711	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R712	1-218-681-11	s RESISTOR,CHIP 360 1/16W (1608)
R713	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R715	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R716	1-218-693-11	s	RESISTOR,CHIP 1.1K 1/16W(1608)
R717	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R718	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R719	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R725	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R726	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R727	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R729	1-218-696-11	s	RESISTOR,CHIP 1.5K 1/16W(1608)
R730	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R731	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R732	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R734	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R735	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R737	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R738	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R739	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R740	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R741	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R742	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R743	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R744	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R745	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R746	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R747	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R748	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R749	1 218 708 11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R750	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R751	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R752	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R753	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R754	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R755	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R756	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R757	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R758	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R759	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R761	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R762	1-218-719-11	s	RESISTOR,METAL 13K 1/16
R763	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R764	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R765	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R766	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R767	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R768	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R769	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R770	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R771	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R773	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R774	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R775	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R776	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R777	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R778	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R779	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R780	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R781	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R782	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R783	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R784	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R785	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R787	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R788	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R789	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R790	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R791	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R792	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R793	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R794	1-218-687-11	s	RESISTOR,CHIP 620 1/16W (1608)
R795	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R796	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R797	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R798	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R799	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R800	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R801	1-218-682-11	s	RESISTOR,CHIP 390 1/16W (1608)
R802	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R803	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R804	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R901	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R902	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R903	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R904	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R905	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R906	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R907	1 218 668 11	s	RESISTOR,CHIP 100 1/16W (1608)
R908	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R909	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R910	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R911	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R912	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R913	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R915	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R916	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R917	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R918	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R919	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R920	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R921	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R922	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R923	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R924	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R925	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R926	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R928	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R929	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R930	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R931	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R933	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R934	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R935	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R936	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R937	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R938	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R939	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R940	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R941	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R942	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R943	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R944	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R945	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R946	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R947	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R948	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R949	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R950	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R951	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R952	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R953	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R954	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R955	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R956	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R957	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R958	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R959	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R960	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R961	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R962	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R963	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R964	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R965	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R966	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R967	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R968	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R969	1 218 708 11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R970	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R971	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R972	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R973	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R974	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R975	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R976	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R977	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R978	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R979	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R980	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R981	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R982	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R983	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R984	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R985	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R986	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R987	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R988	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R990	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R991	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R993	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R994	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R995	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R996	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R997	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R998	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R999	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1000	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1001	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1101	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R1102	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R1103	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1104	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R1105	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1106	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1107	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1108	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1109	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1110	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1111	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1112	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1113	1-218-688-11	s RESISTOR,CHIP 680 1/16W(1608)
R1114	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1115	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1116	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1117	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1118	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1119	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1120	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1121	1-218-682-11	s RESISTOR CHIP 390 1/16W (1608)
R1122	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1123	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R1124	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1125	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1126	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R1127	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R1128	1-218-725-11	s RESISTOR,CHIP 24K 1/16W(1608)
R1129	1 218 708 11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1130	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1131	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1132	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R1133	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1134	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R1135	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R1136	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1137	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R1138	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1139	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R1140	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1141	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1142	1-218-714-11	s RESISTOR,CHIP 8.2K 1/16W(1608)
R1145	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1146	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1151	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1152	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1153	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1154	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1155	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1156	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1157	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1158	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R1159	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R1160	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1161	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1162	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1163	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1164	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1165	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1166	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R1167	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1168	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1201	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1202	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R1203	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1204	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1205	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1206	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1207	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1208	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R1209	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1210	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1211	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1212	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1213	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1214	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1215	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1216	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R1217	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1218	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R1219	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R1220	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1221	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1222	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1223	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1224	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R1225	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1226	1 218 668 11	s	RESISTOR,CHIP 100 1/16W (1608)
R1227	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1228	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R1229	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1230	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R1231	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1232	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1233	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1234	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1235	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1237	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R1239	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1240	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1245	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1246	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1247	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1248	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1249	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1250	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1251	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1252	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1253	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1268	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1301	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1302	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1303	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1304	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1305	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1306	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1307	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1308	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R1309	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1310	1-218-726-11	s	RESISTOR,CHIP 27K 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1311	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1312	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R1313	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1314	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1315	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1316	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1317	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1318	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1319	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1320	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1321	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1322	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1323	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1324	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1325	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1326	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1328	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1329	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1330	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1331	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1332	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1333	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1334	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1335	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1336	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1337	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1338	1 218 724 11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1339	1-218-730-11	s	RESISTOR,METAL FILM CHIP 39K
R1340	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1341	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1342	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1343	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R1344	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1345	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1346	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1347	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1349	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1350	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R1351	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1352	1-218-686-11	s	RESISTOR,CHIP 560 1/16W (1608)
R1353	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1354	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1355	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1356	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1357	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1358	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R1359	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1360	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R1361	1-218-664-11	s	RESISTOR,CHIP 68 1/16W (1608)
R1362	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1363	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1364	1-218-717-11	s	RESISTOR,CHIP 11K 1/16W (1608)
R1365	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R1366	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1367	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1368	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R1369	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1370	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R1371	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R1372	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1373	1-218-722-11 s	RESISTOR,CHIP 18K 1/16W 1608
R1374	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1375	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1376	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1377	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1378	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1379	1-218-718-11 s	RESISTOR,CHIP 12K 1/16W (1608)
R1380	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1381	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1382	1-218-687-11 s	RESISTOR,CHIP 620 1/16W (1608)
R1383	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1384	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1385	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1386	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1387	1-218-680-11 s	RESISTOR,CHIP 330 1/16W(1608)
R1388	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1389	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1390	1-218-703-11 s	RESISTOR,METAL 3.0K 1/16(1608)
R1391	1-218-718-11 s	RESISTOR,CHIP 12K 1/16W (1608)
R1392	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R1393	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R1394	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1395	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1396	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1397	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1398	1 218 752 11 s	RESISTOR,CHIP 330K 1/16W(1608)
R1399	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1400	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1401	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1402	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1403	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1404	1-218-736-11 s	RESISTOR,CHIP 68K 1/16W(1608)
R1406	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1407	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1408	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1409	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1410	1-218-722-11 s	RESISTOR,CHIP 18K 1/16W 1608
R1411	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1412	1-218-708-11 s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1413	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1414	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R1415	1-218-725-11 s	RESISTOR,CHIP 24K 1/16W(1608)
R1416	1-218-699-11 s	RESISTOR,CHIP 2.0K 1/16W(1608)
R1417	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1418	1-218-696-11 s	RESISTOR,CHIP 1.5K 1/16W(1608)
R1419	1-218-708-11 s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1420	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R1421	1-218-708-11 s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1422	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R1423	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1424	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1425	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R1426	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R1428	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R1429	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1430	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1431	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1432	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R1433	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1434	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1435	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1436	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1438	1-218-699-11 s	RESISTOR,CHIP 2.0K 1/16W(1608)
R1439	1-218-710-11 s	RESISTOR,CHIP 5.6K 1/16W(1608)
R1441	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1444	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R1501	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1502	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1503	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1504	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1505	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R1506	1-218-714-11 s	RESISTOR,CHIP 8.2K 1/16W(1608)
R1507	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R1508	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1509	1-218-726-11 s	RESISTOR,CHIP 27K 1/16W (1608)
R1510	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1511	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1512	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1513	1-218-676-11 s	RESISTOR,CHIP 220 1/16W(1608)
R1514	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1515	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1516	1-218-684-11 s	RESISTOR,CHIP 470 1/16W (1608)
R1517	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1518	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1519	1 218 728 11 s	RESISTOR,METAL 33K 1/16W
R1520	1-218-728-11 s	RESISTOR,METAL 33K 1/16W
R1521	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R1522	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R1523	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R1524	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1525	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R1526	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R1528	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R1529	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1530	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R1531	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R1533	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1534	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1535	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1536	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R1537	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1538	1-218-730-11 s	RESISTOR,METAL FILM CHIP 39K
R1539	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1541	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1542	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R1544	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1545	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1546	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1547	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1548	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1549	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1550	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1551	1-218-722-11 s	RESISTOR,CHIP 18K 1/16W 1608
R1552	1-218-722-11 s	RESISTOR,CHIP 18K 1/16W 1608
R1553	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1554	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R1555	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1556	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1557	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1558	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1559	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1560	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1561	1-218-696-11	s	RESISTOR,CHIP 1.5K 1/16W(1608)
R1562	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1563	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1564	1-218-719-11	s	RESISTOR,METAL 13K 1/16
R1565	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1566	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R1567	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R1568	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1569	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1570	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1571	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1572	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1573	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1574	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R1575	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1576	1-216-855-11	s	RESISTOR,CHIP 680K 1/16W 1608
R1577	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1578	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16 (1608)
R1579	1-218-662-11	s	RESISTOR,CHIP 56 1/16W (1608)
R1580	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1581	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1582	1 218 732 11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1583	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1584	1-218-696-11	s	RESISTOR,CHIP 1.5K 1/16W(1608)
R1585	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R1586	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1587	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1588	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1589	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1590	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1591	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1592	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1593	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1594	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R1595	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1596	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1597	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1598	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1599	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1600	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1601	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1602	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1603	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1604	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1605	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16 (1608)
R1606	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R1607	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1608	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1609	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1610	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1611	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1612	1-218-752-11	s	RESISTOR,CHIP 330K 1/16W(1608)
R1613	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1614	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)

(DM-114 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1615	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1616	1-218-736-11	s	RESISTOR,CHIP 68K 1/16W(1608)
R1617	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1618	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1619	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1620	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1621	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1622	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1623	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1624	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1625	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1626	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1627	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1628	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1629	1-218-725-11	s	RESISTOR,CHIP 24K 1/16W(1608)
R1630	1-218-699-11	s	RESISTOR,CHIP 2.0K 1/16W(1608)
R1631	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1632	1-218-696-11	s	RESISTOR,CHIP 1.5K 1/16W(1608)
R1633	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1634	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1635	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1636	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1637	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1638	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1639	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1640	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1641	1 218 668 11	s	RESISTOR,CHIP 100 1/16W (1608)
R1642	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1643	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1644	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1645	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1649	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1650	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1651	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1702	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1703	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1704	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1705	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1706	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1707	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1708	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1709	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1710	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1711	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1712	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1713	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1714	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1715	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1716	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1717	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1719	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1720	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1722	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1724	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1725	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1726	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1727	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1728	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1731	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1732	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1733	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1734	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1737	1-218-736-11	s	RESISTOR,CHIP 68K 1/16W(1608)
R1738	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1800	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1801	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1802	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1803	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1804	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1805	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1806	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1807	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1808	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1809	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1810	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1811	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1812	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1813	1-218-864-11	s	RESISTOR,CHIP 47 1/16W (1608)
R1814	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1815	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1816	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1817	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1819	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1820	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1821	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1822	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1823	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1824	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1825	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1826	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1828	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1829	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1831	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1832	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1833	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1834	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1835	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1836	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1840	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1841	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1842	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1843	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1844	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1846	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1848	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1852	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1853	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1854	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1855	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1856	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1857	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1858	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1859	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1860	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1861	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1862	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1863	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1864	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)

(DM-114 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1865	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1867	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1868	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1869	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1870	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1871	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1872	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1873	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1874	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1875	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1876	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1877	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1878	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R1879	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1880	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1881	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R1882	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1883	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R1884	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1885	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1886	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1887	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1888	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1889	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1890	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1891	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1892	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1893	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R1894	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1895	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1896	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1897	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1898	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1899	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1900	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1901	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1902	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1903	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1904	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1905	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1906	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1907	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1908	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1909	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1910	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1911	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1912	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1913	1-218-735-11	s	RESISTOR,CHIP 62K 1/16W(1608)
R1914	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1915	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1916	1-218-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1920	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1923	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1924	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1925	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
RB1801	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB1802	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1803	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1808	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
RB1809	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1810	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1811	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RV101	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV102	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV104	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV105	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV106	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV107	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV108	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV109	1-237-032-11	s	RESISTOR, ADJ, CERMET 500
RV110	1-237-031-11	s	RESISTOR, ADJ, CERMET 200
RV111	1-237-034-11	s	RESISTOR, ADJ, CERMET 2K
RV112	1-237-034-11	s	RESISTOR, ADJ, CERMET 2K
RV113	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV301	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV302	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV303	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV304	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV305	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV306	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV307	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV308	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV309	1-237-031-11	s	RESISTOR, ADJ, CERMET 200
RV310	1-237-031-11	s	RESISTOR, ADJ, CERMET 200
RV311	1-237-034-11	s	RESISTOR, ADJ, CERMET 2K
RV312	1-237-034-11	s	RESISTOR, ADJ, CERMET 2K
RV313	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
RV501	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV502	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV503	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV504	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV505	1-237-034-11	s	RESISTOR, ADJ, CERMET 2K
RV506	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV701	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV702	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV704	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV1101	1-237-032-11	s	RESISTOR, ADJ, CERMET 500
RV1201	1-237-032-11	s	RESISTOR, ADJ, CERMET 500
RV1301	1-237-038-11	s	RESISTOR, ADJ, CERMET 50K
RV1401	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV1402	1-237-034-11	s	RESISTOR, ADJ, CERMET 2K
RV1410	1-237-035-11	s	RESISTOR, ADJ, CERMET 5K
RV1411	1-237-035-11	s	RESISTOR, ADJ, CERMET 5K
RV1501	1-237-038-11	s	RESISTOR, ADJ, CERMET 50K
RV1601	1-237-035-11	s	RESISTOR, ADJ, CERMET 5K
RV1602	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV1603	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV1604	1-237-036-11	s	RESISTOR, ADJ, CERMET 10K
RV1605	1-237-034-11	s	RESISTOR, ADJ, CERMET 2K
RV1606	1-237-033-11	s	RESISTOR, ADJ, CERMET 1K
RV1801	1-237-037-11	s	RESISTOR, ADJ, CERMET 20K
S101	1-571-275-31	s	SWITCH, SLIDE (1-1-2)
S301	1-571-275-31	s	SWITCH, SLIDE (1-1-2)
S501	1-571-275-31	s	SWITCH, SLIDE (1-1-2)
S901	1-692-270-41	s	SWITCH, SLIDE
S1701	1-692-271-31	s	SWITCH, SLIDE
S1801	1-692-270-41	s	SWITCH, SLIDE

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Ref. No. or Q'ty	Part No.	SP	Description
X301	1-579-989-11	s	VIBRATOR, CERAMIC
X302	1-579-986-21	s	VIBRATOR, CERAMIC
X901	1-767-717-11	s	VIBRATOR, CRYSTAL
X1801	1-767-717-11	s	VIBRATOR, CRYSTAL

DM-114P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-716-A	o MOUNTED CIRCUIT BOARD, DM-114P
2pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)(STEEL)
6pcs	7-682-902-11	s SCREW +PWH 2.6X5 (EP-FE/ZN/CM2)
C101	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C102	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C103	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C104	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C107	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C108	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C109	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C110	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C111	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C113	1-164-380-11	s CAPACITOR,CERAMIC 51PF CH (M-)
C114	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C115	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C116	1-162-924-11	s CAPACITOR,CERAMIC 56PF/50V CH
C117	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C118	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C119	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C120	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C121	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C122	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C123	1-164-238-11	s CAPACITOR,CERAMIC 36PF/50V CH
C124	1-162-920-11	s CAPACITOR,CERAMIC 27PF/50V CH
C125	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C126	1-162-925-11	s CAPACITOR,CERAMIC 68PF/50V CH
C127	1-162-926-11	s CAPACITOR,CERAMIC 82PF/50V CH
C128	1-164-238-11	s CAPACITOR,CERAMIC 36PF/50V CH
C129	1-162-920-11	s CAPACITOR,CERAMIC 27PF/50V CH
C130	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C131	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C132	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C133	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C134	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C135	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C136	1-164-380-11	s CAPACITOR,CERAMIC 51PF CH (M-)
C137	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C138	1-162-917-11	s CAPACITOR,CERAMIC 15PF/50V CH
C139	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C140	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C141	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C142	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C143	1-164-378-11	s CAPACITOR CERAMIC 30PF/50V CH
C144	1-164-379-11	s CAPACITOR,CERAMIC 43PF/50V CH
C145	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C146	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C147	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C148	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C149	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C150	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C151	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C152	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C153	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C154	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C155	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C156	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C157	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

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C158	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C159	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C160	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C161	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C162	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C163	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C164	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C165	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C166	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C167	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C168	1-162-926-11	s CAPACITOR,CERAMIC 82PF/50V CH
C169	1-164-217-11	s CAPACITOR,CERAMIC 150PF/50V CH
C170	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C171	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C172	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C173	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C174	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C175	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C176	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C177	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C178	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C179	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C180	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C181	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C182	1-162-910-11	s CAPACITOR,CERAMIC 5PF/50V 1608
C183	1-162-910-11	s CAPACITOR,CERAMIC 5PF/50V 1608
C184	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C185	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C186	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C187	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C188	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C190	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C191	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V(105)
C192	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C193	1-162-913-11	s CAPACITOR,CHIP CERAMIC 8PF/50V
C194	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C195	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C196	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C197	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C198	1-162-959-11	s CAPACITOR,CERAMIC 330PF/50V SL
C199	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C200	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C201	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C302	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C303	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C304	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C305	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C306	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C307	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C308	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C309	1-162-918-11	s CAPACITOR,CERAMIC 18PF/50V CH
C310	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C311	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C312	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C313	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C314	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH

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C315	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C316	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C317	1-162-922-11	s	CAPACITOR, CERAMIC 39PF/50V CH
C318	1-164-380-11	s	CAPACITOR, CERAMIC 51PF CH (M-)
C319	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C320	1-162-926-11	s	CAPACITOR, CERAMIC 82PF/50V CH
C321	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C322	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C323	1-162-922-11	s	CAPACITOR, CERAMIC 39PF/50V CH
C324	1-164-380-11	s	CAPACITOR, CERAMIC 51PF CH (M-)
C325	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C326	1-164-217-11	s	CAPACITOR, CERAMIC 150PF/50V CH
C327	1-162-910-11	s	CAPACITOR, CERAMIC 5PF/50V 1608
C328	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C329	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C330	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C331	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C332	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C333	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C334	1-164-380-11	s	CAPACITOR, CERAMIC 51PF CH (M-)
C335	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C336	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C337	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C338	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C339	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C340	1-162-975-11	s	CAPACITOR, CERAMIC 24PF/50V CH
C341	1-164-380-11	s	CAPACITOR, CERAMIC 51PF CH (M-)
C342	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C343	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C344	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C345	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C346	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C347	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C348	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C349	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C350	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C351	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C352	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C353	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C354	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C355	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C356	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C357	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C358	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C359	1-164-385-11	s	CAPACITOR, CERAMIC 160PF/50V
C360	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C361	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C362	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C363	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C364	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C365	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C366	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C367	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C368	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C369	1-162-913-11	s	CAPACITOR, CHIP CERAMIC 8PF/50V
C370	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C371	1-162-913-11	s	CAPACITOR, CHIP CERAMIC 8PF/50V
C372	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C373	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C374	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C375	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C377	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V(CHIP)
C378	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V(CHIP)
C379	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C380	1-162-913-11	s	CAPACITOR, CHIP CERAMIC 8PF/50V
C381	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C382	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C383	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C384	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C385	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V(CHIP)
C386	1-162-959-11	s	CAPACITOR, CERAMIC 330PF/50V SL
C387	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C388	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C389	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C501	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C502	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C503	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C505	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C506	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C507	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C508	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C509	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C510	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C511	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C512	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C513	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C514	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C515	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C516	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C517	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C518	1-126-394-11	s	CAPACITOR ELECT 10MF/16V(CHIP)
C519	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C520	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C521	1-104-922-21	s	CAPACITOR, MINITURE MOLDMICA
C522	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C523	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C524	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C525	1-126-398-11	s	CAPACITOR ELECT 4.7MF/35V(CHIP)
C526	1-162-908-11	s	CAPACITOR, CERAMIC 3PF/50V 1608
C527	1-162-912-11	s	CAPACITOR, CERAMIC 7PF/50V 1608
C528	1-162-909-11	s	CAPACITOR, CERAMIC 4.0PF/50V CH
C529	1-164-238-11	s	CAPACITOR, CERAMIC 36PF/50V CH
C530	1-164-379-11	s	CAPACITOR, CERAMIC 43PF/50V CH
C531	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C532	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C533	1-126-390-11	s	CAPACITOR ELECT 22MF/6.3V(105)
C534	1-135-180-21	s	CAPACITOR TANTALUM 3.3MF/10V
C535	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C536	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C537	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C538	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C539	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C540	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C541	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C542	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C543	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C544	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C545	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V

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C546	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C547	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C548	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C549	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C550	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C551	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C552	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C553	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C554	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C555	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C556	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C557	1-126-396-11 s	CAPACITOR ELECT 47MF/16V(CHIP)
C558	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C559	1-164-160-11 s	CAPACITOR,CERAMIC 20PF/50V CH
C560	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C561	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C562	1-117-373-11 s	CAPACITOR, (SMD) 150MF/6.3V
C563	1-117-373-11 s	CAPACITOR, (SMD) 150MF/6.3V
C564	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C565	1-162-920-11 s	CAPACITOR,CERAMIC 27PF/50V CH
C566	1-135-070-00 s	CAPACITOR TANTALUM 0.1MF/35V
C567	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C568	1-162-920-11 s	CAPACITOR,CERAMIC 27PF/50V CH
C569	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C570	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C571	1-162-915-11 s	CAPACITOR,CERAMIC 10PF/50V CH
C701	1 107 826 11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C702	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C703	1-117-373-11 s	CAPACITOR, (SMD) 150MF/6.3V
C704	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C705	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C706	1-126-391-11 s	CAPACITOR ELECT 47MF/6.3V(105)
C707	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C708	1-104-922-21 s	CAPACITOR,MINITURE MOLDMICA
C709	1-126-398-11 s	CAPACITOR ELECT 4.7MF/35V(CHIP)
C710	1-126-391-11 s	CAPACITOR ELECT 47MF/6.3V(105)
C711	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C712	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C713	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C714	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C715	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C716	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C717	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C718	1-126-390-11 s	CAPACITOR ELECT 22MF/6.3V(105)
C719	1-135-180-21 s	CAPACITOR TANTALUM 3.3MF/10V
C720	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C721	1-117-373-11 s	CAPACITOR, (SMD) 150MF/6.3V
C722	1-135-177-21 s	CAPACITOR TANTALUM 1MF/25V
C723	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C724	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C725	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C726	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C727	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C728	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C729	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C730	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C731	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C732	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C733	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF

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C734	1-126-396-11 s	CAPACITOR ELECT 47MF/16V(CHIP)
C735	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C736	1-164-160-11 s	CAPACITOR,CERAMIC 20PF/50V CH
C737	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C738	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C739	1-117-373-11 s	CAPACITOR, (SMD) 150MF/6.3V
C740	1-117-373-11 s	CAPACITOR, (SMD) 150MF/6.3V
C741	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C742	1-162-920-11 s	CAPACITOR,CERAMIC 27PF/50V CH
C743	1-135-070-00 s	CAPACITOR TANTALUM 0.1MF/35V
C744	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C745	1-162-920-11 s	CAPACITOR,CERAMIC 27PF/50V CH
C746	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C747	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C901	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C902	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C903	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C904	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C905	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C906	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C907	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C908	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C909	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C910	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C911	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C912	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C913	1 164 227 11 s	CAPACITOR,CERAMIC 0.022MF/25V
C914	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C915	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C916	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C917	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C918	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C919	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C920	1-164-315-11 s	CAPACITOR,CERAMIC 470PF/50V CH
C921	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C922	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C923	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C924	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C925	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C926	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C927	1-164-227-11 s	CAPACITOR,CERAMIC 0.022MF/25V
C928	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C929	1-126-393-11 s	CAPACITOR ELECT 33MF/10V(CHIP)
C930	1-113-981-11 s	CAPACITOR TANTALUM 22MF/20V
C931	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C932	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C933	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C934	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C935	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C936	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C937	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C938	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C939	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C940	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C941	1-126-396-11 s	CAPACITOR ELECT 47MF/16V(CHIP)
C942	1-104-823-11 s	CAPACITOR,CHIP TANTAL 47MF/16V
C943	1-104-823-11 s	CAPACITOR,CHIP TANTAL 47MF/16V
C944	1-104-823-11 s	CAPACITOR,CHIP TANTAL 47MF/16V
C945	1-104-823-11 s	CAPACITOR,CHIP TANTAL 47MF/16V

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C946	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C947	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C948	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C949	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C950	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C951	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C952	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C953	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C954	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C955	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C956	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C957	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C958	1-126-396-11	s	CAPACITOR ELECT 47MF/16V (CHIP)
C959	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C960	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C961	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C962	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C963	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C964	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C965	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C1101	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1102	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1103	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1105	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C1106	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1107	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1108	1 135 070 00	s	CAPACITOR TANTALUM 0.1MF/35V
C1109	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1110	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C1111	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1112	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1113	1-135-070-00	s	CAPACITOR TANTALUM 0.1MF/35V
C1114	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1115	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1116	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1117	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1118	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V
C1119	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C1121	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C1122	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V
C1123	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1125	1-162-928-11	s	CAPACITOR,CERAMIC 120PF/50V CH
C1126	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1128	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C1129	1-117-372-11	s	CAP,ELECT (SMD) 100MF/10V
C1130	1-117-372-11	s	CAP,ELECT (SMD) 100MF/10V
C1131	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C1132	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1133	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1134	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1135	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C1136	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1138	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C1139	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C1140	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1141	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1142	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1143	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V
C1144	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V

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C1145	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V
C1146	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1147	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1148	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1149	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1201	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1202	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1203	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V (105)
C1204	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1205	1-135-070-00	s	CAPACITOR TANTALUM 0.1MF/35V
C1206	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1207	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C1208	1-135-070-00	s	CAPACITOR TANTALUM 0.1MF/35V
C1209	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1210	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1211	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1212	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1213	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1214	1-104-852-11	s	CAPACITOR,TANTALUM 22MF/10V
C1215	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C1217	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C1218	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1220	1-162-928-11	s	CAPACITOR,CERAMIC 120PF/50V CH
C1222	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C1223	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1224	1-117-372-11	s	CAP,ELECT (SMD) 100MF/10V
C1225	1 117 372 11	s	CAP,ELECT (SMD) 100MF/10V
C1226	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C1227	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1228	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1229	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1230	1-164-217-11	s	CAPACITOR,CERAMIC 150PF/50V CH
C1232	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1233	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C1234	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C1235	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1236	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1237	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1301	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C1302	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C1303	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1304	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1305	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C1306	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1307	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V
C1308	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1309	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1310	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C1311	1-162-959-11	s	CAPACITOR,CERAMIC 330PF/50V SL
C1312	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C1313	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1314	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1316	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1317	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1318	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1319	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C1320	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1321	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C1322	1-104-608-11	s	CAPACITOR,ELECT 33MF/6.3V

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C1323	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1324	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1325	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1326	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1327	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1328	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1329	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1330	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1331	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1332	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1401	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1402	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1403	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1404	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C1405	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1406	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1407	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C1408	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1409	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1410	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1411	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1412	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1413	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1414	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1415	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1416	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1417	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1418	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1419	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1420	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C1421	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1422	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1423	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1424	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C1425	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C1426	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C1427	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1428	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1429	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1430	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1431	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1432	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1433	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1434	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1435	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C1436	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1437	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1438	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1439	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1440	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1441	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1442	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1443	1-135-149-21	s CAPACITOR TANTALUM 2.2MF/10V
C1444	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1445	1-135-149-21	s CAPACITOR TANTALUM 2.2MF/10V
C1446	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1447	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1448	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1449	1-135-210-11	s CAPACITOR TANTAL 4.7MF/10V

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C1450	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1451	1-135-210-11	s CAPACITOR TANTAL 4.7MF/10V
C1452	1-135-146-21	s CAPACITOR TANTALUM 0.68MF/25V
C1453	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1454	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1455	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1456	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1457	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1458	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1459	1-115-416-11	s CAPACITOR,CERAMIC 1000PF/25V
C1460	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1461	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1462	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1463	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1464	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1501	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1502	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1503	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1504	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1505	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1506	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1507	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1508	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1509	1-162-917-11	s CAPACITOR,CERAMIC 15PF/50V CH
C1510	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C1511	1-162-928-11	s CAPACITOR,CERAMIC 120PF/50V CH
C1512	1-162-959-11	s CAPACITOR,CERAMIC 330PF/50V SL
C1513	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C1514	1-162-910-11	s CAPACITOR,CERAMIC 5PF/50V 1608
C1515	1-162-916-11	s CAPACITOR,CERAMIC 12PF/50V CH
C1516	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1517	1-162-916-11	s CAPACITOR,CERAMIC 12PF/50V CH
C1518	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C1519	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1521	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1522	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1523	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1524	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1525	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C1526	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1527	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1528	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1529	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1530	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1531	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1532	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1533	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1534	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1535	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1536	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1601	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1602	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C1603	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1604	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C1605	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C1606	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1607	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1608	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C1609	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)

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Ref. No. or Q'ty	Part No.	SP	Description
C1610	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C1611	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1612	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C1613	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C1614	1-126-394-11	s	CAPACITOR, ELECT 10MF/16V (CHIP)
C1615	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V (CHIP)
C1616	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1617	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1618	1-126-401-11	s	CAPACITOR, ELECT 1MF/50V (CHIP)
C1619	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1620	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1621	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1622	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1623	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1624	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1625	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C1626	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1627	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C1628	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C1629	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1630	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1631	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1632	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1633	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1634	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1635	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1636	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1637	1-162-928-11	s	CAPACITOR, CERAMIC 120PF/50V CH
C1638	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1639	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1640	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1641	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1642	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1643	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1644	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1645	1-135-149-21	s	CAPACITOR, TANTALUM 2.2MF/10V
C1646	1-135-146-21	s	CAPACITOR, TANTALUM 0.68MF/25V
C1647	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1648	1-135-149-21	s	CAPACITOR, TANTALUM 2.2MF/10V
C1649	1-135-146-21	s	CAPACITOR, TANTALUM 0.68MF/25V
C1650	1-135-210-11	s	CAPACITOR, TANTAL 4.7MF/10V
C1651	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1652	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1653	1-135-210-11	s	CAPACITOR, TANTAL 4.7MF/10V
C1654	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1655	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1656	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1657	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1658	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1659	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1660	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C1661	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1662	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1663	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1664	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1665	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1666	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1667	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1701	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C1702	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1703	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1704	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1705	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1706	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1707	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1708	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1709	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1710	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1711	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1712	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1713	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1714	1-126-392-11	s	CAPACITOR, CHIP ELECT100MF/6.3V
C1715	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1716	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1717	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1718	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1719	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1720	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1721	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1722	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1723	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1724	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1725	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1726	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1727	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1728	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1729	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1730	1-162-925-11	s	CAPACITOR, CERAMIC 68PF/50V CH
C1731	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1732	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1733	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1734	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1735	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1736	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1737	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1738	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1739	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1740	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C1741	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1742	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1743	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1800	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1801	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1802	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1803	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1804	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1805	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1806	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1807	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1808	1-126-394-11	s	CAPACITOR, ELECT 10MF/16V (CHIP)
C1809	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C1810	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C1811	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C1812	1-162-921-11	s	CAPACITOR, CERAMIC 33PF/50V CH
C1813	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C1814	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C1815	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1816	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH

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Ref. No. or Q'ty	Part No.	SP Description
C1817	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1818	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1819	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1820	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1821	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1822	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1823	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1824	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1825	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1826	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1827	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1828	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1829	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1830	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1831	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1832	1-126-392-11	s CAPACITOR,CHIP ELECT100MF/6.3V
C1833	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C1834	1-104-852-11	s CAPACITOR,TANTALUM 22MF/10V
C1835	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1837	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1838	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1839	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1840	1-104-852-11	s CAPACITOR,TANTALUM 22MF/10V
C1841	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1842	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1843	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1844	1 104 608 11	s CAPACITOR,ELECT 33MF/6.3V
C1845	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1846	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1847	1-135-180-21	s CAPACITOR TANTALUM 3.3MF/10V
C1848	1-135-180-21	s CAPACITOR TANTALUM 3.3MF/10V
C1849	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1850	1-135-072-21	s CAPACITOR,TANTALUM 0.22MF/35V
C1851	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1852	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C1853	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1854	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1855	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1856	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1857	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1858	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1859	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1860	1-162-921-11	s CAPACITOR,CERAMIC 33PF/50V CH
C1861	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1862	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1863	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1864	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1865	1-162-920-11	s CAPACITOR,CERAMIC 27PF/50V CH
C1866	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1867	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1868	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1869	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1870	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C1871	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1872	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C1873	1-104-608-11	s CAPACITOR,ELECT 33MF/6.3V
C1874	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C1875	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C1876	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH

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Ref. No. or Q'ty	Part No.	SP Description
C1877	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1878	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1879	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1880	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1881	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C1882	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
CN1	1-580-057-11	o PIN,CONNECTOR 4P
CN100	1-784-200-11	o CONNECTOR, BOARD TO BOARD 140P
D101	8-719-941-23	s DIODE DA204U
D301	8-719-941-23	s DIODE DA204U
D501	8-719-024-81	s DIODE 1SS300-TE85L
D502	8-719-024-81	s DIODE 1SS300-TE85L
D503	8-719-941-23	s DIODE DA204U
D504	8-719-404-35	s DIODE MA141WK
D505	8-719-029-55	s ZENER DIODE RD2.0UH-T1
D701	8-719-024-81	s DIODE 1SS300-TE85L
D702	8-719-941-23	s DIODE DA204U
D703	8-719-404-35	s DIODE MA141WK
D704	8-719-029-55	s ZENER DIODE RD2.0UH-T1
D901	8-719-991-27	s LED CL-170G-CD
D902	8-719-941-04	s DIODE SB007-03CP
D903	8-719-029-55	s ZENER DIODE RD2.0UH-T1
D904	8-719-029-55	s ZENER DIODE RD2.0UH-T1
D905	8-719-029-55	s ZENER DIODE RD2.0UH-T1
D906	8-719-029-55	s ZENER DIODE RD2.0UH-T1
D907	8 719 029 55	s ZENER DIODE RD2.0UH T1
D908	8-719-029-55	s ZENER DIODE RD2.0UH-T1
D909	8-719-941-23	s DIODE DA204U
D1102	8-719-941-23	s DIODE DA204U
D1103	8-719-404-35	s DIODE MA141WK
D1104	8-719-941-23	s DIODE DA204U
D1201	8-719-941-23	s DIODE DA204U
D1202	8-719-941-23	s DIODE DA204U
D1204	8-719-941-23	s DIODE DA204U
D1301	8-719-941-23	s DIODE DA204U
D1401	8-719-941-23	s DIODE DA204U
D1402	8-719-941-23	s DIODE DA204U
D1405	8-719-041-39	s DIODE KV1470 (5MA)
D1406	8-719-041-39	s DIODE KV1470 (5MA)
D1501	8-719-941-23	s DIODE DA204U
D1502	8-719-024-81	s DIODE 1SS300-TE85L
D1601	8-719-941-23	s DIODE DA204U
D1602	8-719-941-23	s DIODE DA204U
D1603	8-719-041-39	s DIODE KV1470 (5MA)
D1604	8-719-041-39	s DIODE KV1470 (5MA)
D1701	8-719-404-35	s DIODE MA141WK
D1702	8-719-024-81	s DIODE 1SS300-TE85L
D1703	8-719-024-81	s DIODE 1SS300-TE85L
D1704	8-719-024-81	s DIODE 1SS300-TE85L
D1705	8-719-024-81	s DIODE 1SS300-TE85L
D1801	8-719-024-81	s DIODE 1SS300-TE85L
D1802	8-719-991-27	s LED CL-170G-CD
D1803	8-719-941-23	s DIODE DA204U
D1808	8-719-941-86	s DIODE DAN202U
D1809	8-719-941-09	s DIODE DAP202U
D1810	8-719-941-09	s DIODE DAP202U
D1910	8-719-938-72	s DIODE SB01-05CP (RECTI)

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Ref. No. or Q'ty	Part No.	SP	Description
FL101	1-416-645-11	s	DELAY LINE
FL103	1-416-478-11	s	DELAY LINE
FL301	1-416-646-11	s	DELAY LINE
FL303	1-416-480-11	s	DELAY LINE
FL501	1-234-007-11	s	FILTER, LOW PASS
FL502	1-234-001-11	s	FILTER, LOW PASS
FL503	1-234-000-11	s	FILTER, LOW PASS
FL504	1-233-999-11	s	FILTER, LOW PASS
FL701	1-234-002-11	s	FILTER, LOW PASS
FL702	1-234-008-11	s	FILTER, LOW PASS
FL703	1-234-004-11	s	FILTER, LOW PASS
FL1101	1-234-009-11	s	FILTER, LOW PASS
FL1201	1-234-003-11	s	FILTER, LOW PASS
IC101	8-752-052-75	s	IC CXA1479Q
IC102	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC103	8-759-112-53	s	IC UPC1663G
IC104	8-759-058-64	s	IC TC7S32FU-TE85R
IC105	8-752-052-73	s	IC CXA1451M
IC106	8-759-523-01	s	IC TC74HC4052AFT (EL)
IC108	8-759-287-54	s	IC TL084CPW (E20)
IC109	8-759-523-78	s	IC TC74VHC00FT (EL)
IC110	8-759-058-62	s	IC TC7S08FU-TE85R
IC111	8-759-058-62	s	IC TC7S08FU-TE85R
IC301	8-759-242-78	s	IC TC7W02F
IC302	8-752-052-75	s	IC CXA1479Q
IC303	8-759-927-46	s	IC SN74HC00ANS
IC304	8 759 523 02	s	IC TC74HC4053AFT (EL)
IC305	8-752-052-73	s	IC CXA1451M
IC308	8-759-287-54	s	IC TL084CPW (E20)
IC309	8-759-082-58	s	IC TC7W08FU
IC310	8-759-058-56	s	IC TC7S02FU (TE85R)
IC311	8-759-058-62	s	IC TC7S08FU-TE85R
IC501	8-759-058-58	s	IC TC7S04FU-TE85R
IC502	8-759-082-59	s	IC TC7W32FU
IC503	8-759-359-66	s	IC TL082CPW (E05)
IC504	8-752-061-02	s	IC CXA1450M
IC505	8-752-052-48	s	IC CXA1370Q
IC506	8-759-058-58	s	IC TC7S04FU-TE85R
IC507	8-752-061-02	s	IC CXA1450M
IC508	1-810-128-11	s	IC BP-015
IC509	8-752-061-02	s	IC CXA1450M
IC510	8-752-061-02	s	IC CXA1450M
IC511	8-752-052-73	s	IC CXA1451M
IC512	8-759-260-53	s	IC LM2903PW-E05
IC513	8-759-012-00	s	IC MC10H116M
IC701	8-759-082-59	s	IC TC7W32FU
IC702	8-752-052-48	s	IC CXA1370Q
IC703	1-810-128-11	s	IC BP-015
IC704	8-759-260-53	s	IC LM2903PW-E05
IC705	8-752-052-73	s	IC CXA1451M
IC706	8-759-012-00	s	IC MC10H116M
IC710	8-759-058-62	s	IC TC7S08FU-TE85R
IC901	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC902	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC903	8-759-523-02	s	IC TC74HC4053AFT (EL)
IC904	8-759-082-61	s	IC TC4W53FU
IC905	8-759-635-27	s	IC M62352GP
IC906	8-759-635-27	s	IC M62352GP

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Ref. No. or Q'ty	Part No.	SP	Description
IC907	8-759-523-03	s	IC TC74HC4066AFT (EL)
IC908	8-759-263-32	s	IC UPD78011BGC-608-AB8
IC909	8-759-488-17	s	IC BR93LC46F-E2
IC910	8-759-485-79	s	IC TC7SET08FU (TE85L)
IC911	8-759-388-62	s	IC NJU7062M (TE2)
IC913	8-759-172-41	s	IC L78M09T-TL
IC914	8-759-337-40	s	IC NJM2904V (TE2)
IC915	8-759-337-40	s	IC NJM2904V (TE2)
IC916	8-759-337-40	s	IC NJM2904V (TE2)
IC917	8-759-710-88	s	IC NJM431U
IC918	8-759-710-88	s	IC NJM431U
IC919	8-759-710-88	s	IC NJM431U
IC920	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC921	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC922	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC1101	8-759-082-57	s	IC TC7W04FU
IC1102	8-759-702-08	s	IC NJM360M
IC1103	8-759-287-54	s	IC TL084CPW (E20)
IC1104	8-759-082-60	s	IC TC7S66FU
IC1105	8-759-082-61	s	IC TC4W53FU
IC1106	8-759-082-58	s	IC TC7W08FU
IC1107	8-759-337-40	s	IC NJM2904V (TE2)
IC1108	8-752-376-32	s	IC CXD2310AR
IC1109	8-752-362-70	s	IC CXD101-106Q
IC1110	8-759-337-40	s	IC NJM2904V (TE2)
IC1111	8-759-710-88	s	IC NJM431U
IC1112	8 759 710 88	s	IC NJM431U
IC1113	8-759-710-88	s	IC NJM431U
IC1114	8-759-209-90	s	IC TC4S71F
IC1201	8-759-287-54	s	IC TL084CPW (E20)
IC1202	8-759-082-60	s	IC TC7S66FU
IC1203	8-759-082-61	s	IC TC4W53FU
IC1207	8-752-376-32	s	IC CXD2310AR
IC1208	8-752-362-70	s	IC CXD101-106Q
IC1214	8-759-209-90	s	IC TC4S71F
IC1301	8-752-358-08	s	IC CXD2221Q
IC1302	8-759-359-66	s	IC TL082CPW (E05)
IC1303	8-759-082-60	s	IC TC7S66FU
IC1304	8-759-973-82	s	IC TLC5491PS
IC1305	8-759-395-37	s	IC XRD7523AID-JTR
IC1306	8-759-359-66	s	IC TL082CPW (E05)
IC1307	8-759-082-59	s	IC TC7W32FU
IC1402	8-759-287-54	s	IC TL084CPW (E20)
IC1404	8-759-907-81	s	IC SN74LS221N (S)
IC1405	8-759-702-08	s	IC NJM360M
IC1406	8-759-058-62	s	IC TC7S08FU-TE85R
IC1407	8-759-523-03	s	IC TC74HC4066AFT (EL)
IC1408	8-759-242-78	s	IC TC7W02F
IC1409	8-759-287-54	s	IC TL084CPW (E20)
IC1410	8-759-196-93	s	IC TC7SH00FU-TE85R
IC1411	8-759-196-93	s	IC TC7SH00FU-TE85R
IC1501	8-752-358-08	s	IC CXD2221Q
IC1502	8-759-287-54	s	IC TL084CPW (E20)
IC1503	8-759-082-60	s	IC TC7S66FU
IC1504	8-759-973-82	s	IC TLC5491PS
IC1505	8-759-395-37	s	IC XRD7523AID-JTR
IC1506	8-759-359-66	s	IC TL082CPW (E05)
IC1507	8-759-196-93	s	IC TC7SH00FU-TE85R
IC1510	8-759-196-93	s	IC TC7SH00FU-TE85R

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Ref. No. or Q'ty	Part No.	SP	Description
IC1601	8-759-184-64	s	IC TC4W66FU
IC1603	8-759-260-53	s	IC LM2903PW-E05
IC1604	8-759-082-61	s	IC TC4W53FU
IC1605	8-759-287-54	s	IC TL084CPW (E20)
IC1606	8-759-523-03	s	IC TC74HC4066AFT (EL)
IC1608	8-759-702-08	s	IC NJM360M
IC1609	8-759-907-81	s	IC SN74LS221N(S)
IC1610	8-759-058-62	s	IC TC7S08FU-TE85R
IC1611	8-759-242-78	s	IC TC7W02F
IC1612	8-759-359-66	s	IC TL082CPW (E05)
IC1614	8-759-524-19	s	IC TC74VHC164FT (EL)
IC1701	8-759-058-64	s	IC TC7S32FU-TE85R
IC1702	8-759-194-81	s	IC CXD8395AQ
IC1703	8-759-194-81	s	IC CXD8395AQ
IC1704	8-752-359-55	s	IC CXK48324R
IC1705	8-752-359-55	s	IC CXK48324R
IC1706	8-759-277-63	s	IC TC7W14FU (TE12R)
IC1707	8-759-523-94	s	IC TC74VHC32FT (EL)
IC1708	8-752-341-32	s	IC CXD2209Q
IC1709	8-759-524-22	s	IC TC74VHC175FT (EL)
IC1710	8-759-523-95	s	IC TC74VHC74FT (EL)
IC1711	8-759-524-18	s	IC TC74VHC163FT (EL)
IC1712	8-752-341-32	s	IC CXD2209Q
IC1713	8-752-341-32	s	IC CXD2209Q
IC1714	8-759-399-52	s	IC CXD8935BQ
IC1715	8-759-277-63	s	IC TC7W14FU (TE12R)
IC1716	8-759-524-10	s	IC TC74VHC157FT (EL)
IC1717	8-759-196-96	s	IC TC7S08FU (TE85R)
IC1800	8-759-082-58	s	IC TC7W08FU
IC1801	8-759-491-51	s	IC TC74VHCT245AFT (EL)
IC1802	8-759-490-41	s	IC TC74VHCT541AFT (EL)
IC1803	8-759-082-58	s	IC TC7W08FU
IC1804	8-759-523-84	s	IC TC74VHC14FT (EL)
IC1805	8-759-387-54	s	IC S-80727-SN-DQ-T1
IC1806	8-759-058-62	s	IC TC7S08FU-TE85R
IC1807	8-759-083-94	s	IC TC7W74FU
IC1808	8-759-582-56	s	IC UPD78014FGC-639-AB8
IC1809	8-759-702-08	s	IC NJM360M
IC1810	8-759-195-81	s	IC TC7S86FU
IC1811	8-759-058-62	s	IC TC7S08FU-TE85R
IC1812	8-759-488-17	s	IC BR93LC46F-E2
IC1813	8-759-395-37	s	IC XRD7523AID-JTR
IC1814	8-759-295-09	s	IC TLC2932IPW
IC1815	8-759-710-88	s	IC NJM431U
IC1816	8-759-195-81	s	IC TC7S86FU
IC1817	8-759-278-58	s	IC NJM1558V (TE2)
IC1818	8-759-082-60	s	IC TC7S66FU
IC1819	8-759-359-66	s	IC TL082CPW (E05)
IC1820	8-759-260-53	s	IC LM2903PW-E05
IC1821	8-759-082-57	s	IC TC7W04FU
IC1822	8-759-058-62	s	IC TC7S08FU-TE85R
IC1823	8-759-523-97	s	IC TC74VHC123AFT (EL)
IC1824	8-752-356-05	s	IC CXD206-104Q
IC1825	8-759-524-50	s	IC TC74VHC541FT (EL)
IC1826	8-759-524-50	s	IC TC74VHC541FT (EL)
IC1827	8-759-359-66	s	IC TL082CPW (E05)
IC1828	8-759-523-97	s	IC TC74VHC123AFT (EL)
IC1829	8-752-360-90	s	IC CXD303-101Q
IC1830	8-752-355-09	s	IC CXD104-114Q

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Ref. No. or Q'ty	Part No.	SP	Description
IC1831	8-759-524-52	s	IC TC74VHC574FT (EL)
IC1832	8-759-524-52	s	IC TC74VHC574FT (EL)
IC1833	8-759-907-81	s	IC SN74LS221N(S)
IC1834	8-759-058-64	s	IC TC7S32FU-TE85R
L102	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L103	1-410-369-11	s	CHIP INDUCTOR 1.0UH (3225)
L104	1-410-383-31	s	INDUCTOR,CHIP 15UH (3225)
L105	1-410-372-21	s	CHIP INDUCTOR 1.8UH (3225)
L106	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L107	1-410-378-11	s	INDUCTOR,CHIP 5.6UH (3225)
L108	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L109	1-410-378-11	s	INDUCTOR,CHIP 5.6UH (3225)
L110	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L111	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L112	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L113	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L114	1-410-375-11	s	CHIP INDUCTOR 3.3UH (3225)
L115	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L116	1-410-378-11	s	INDUCTOR,CHIP 5.6UH (3225)
L117	1-414-398-11	s	INDUCTOR (SMD) 10UH
L118	1-414-398-11	s	INDUCTOR (SMD) 10UH
L119	1-414-398-11	s	INDUCTOR (SMD) 10UH
L120	1-414-398-11	s	INDUCTOR (SMD) 10UH
L121	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L122	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L123	1-414-398-11	s	INDUCTOR (SMD) 10UH
L124	1-410-382-31	s	INDUCTOR,CHIP 12UH (3225)
L125	1-412-203-11	s	MICRO INDUCTOR 560UH
L301	1-414-398-11	s	INDUCTOR (SMD) 10UH
L302	1-410-379-31	s	CHIP INDUCTOR 6.8UH (3225)
L303	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L304	1-414-398-11	s	INDUCTOR (SMD) 10UH
L305	1-410-379-31	s	CHIP INDUCTOR 6.8UH (3225)
L306	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L307	1-412-282-41	s	INDUCTOR INDUCTOR 470UH (3225)
L308	1-412-282-41	s	INDUCTOR INDUCTOR 470UH (3225)
L309	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L310	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L311	1-414-398-11	s	INDUCTOR (SMD) 10UH
L312	1-414-398-11	s	INDUCTOR (SMD) 10UH
L313	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L314	1-410-380-31	s	INDUCTOR,CHIP 8.2UH (3225)
L315	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L316	1-410-371-41	s	CHIP INDUCTOR 1.5UH
L317	1-414-398-11	s	INDUCTOR (SMD) 10UH
L318	1-410-383-31	s	INDUCTOR,CHIP 15UH (3225)
L319	1-412-203-11	s	MICRO INDUCTOR 560UH
L501	1-414-400-11	s	INDUCTOR, 22UH
L502	1-414-400-11	s	INDUCTOR, 22UH
L503	1-412-282-41	s	INDUCTOR INDUCTOR 470UH (3225)
L504	1-412-206-11	s	MICRO INDUCTOR 1MMH
L505	1-414-400-11	s	INDUCTOR, 22UH
L506	1-414-404-11	s	INDUCTOR (SMD) 100UH
L507	1-414-404-11	s	INDUCTOR (SMD) 100UH
L508	1-414-404-11	s	INDUCTOR (SMD) 100UH
L509	1-414-400-11	s	INDUCTOR, 22UH
L510	1-414-404-11	s	INDUCTOR (SMD) 100UH
L511	1-414-396-21	s	INDUCTOR (SMD) 4.7UH
L512	1-414-398-11	s	INDUCTOR (SMD) 10UH

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Ref. No. or Q'ty	Part No.	SP	Description
L513	1-414-404-11	s	INDUCTOR (SMD) 100UH
L514	1-414-404-11	s	INDUCTOR (SMD) 100UH
L701	1-414-400-11	s	INDUCTOR, 22UH
L702	1-414-404-11	s	INDUCTOR (SMD) 100UH
L703	1-414-404-11	s	INDUCTOR (SMD) 100UH
L704	1-414-404-11	s	INDUCTOR (SMD) 100UH
L705	1-414-404-11	s	INDUCTOR (SMD) 100UH
L706	1-414-404-11	s	INDUCTOR (SMD) 100UH
L707	1-414-396-21	s	INDUCTOR (SMD) 4.7UH
L708	1-414-398-11	s	INDUCTOR (SMD) 10UH
L901	1-409-579-11	s	COIL, CHOKE 8.2UH
L902	1-409-579-11	s	COIL, CHOKE 8.2UH
L903	1-409-579-11	s	COIL, CHOKE 8.2UH
L904	1-409-579-11	s	COIL, CHOKE 8.2UH
L905	1-409-579-11	s	COIL, CHOKE 8.2UH
L906	1-409-579-11	s	COIL, CHOKE 8.2UH
L1101	1-412-193-11	s	MICRO INDUCTOR 68UH
L1102	1-414-400-11	s	INDUCTOR, 22UH
L1103	1-412-196-11	s	MICRO INDUCTOR 150UH
L1104	1-414-400-11	s	INDUCTOR, 22UH
L1105	1-414-400-11	s	INDUCTOR, 22UH
L1106	1-414-400-11	s	INDUCTOR, 22UH
L1201	1-414-400-11	s	INDUCTOR, 22UH
L1202	1-412-196-11	s	MICRO INDUCTOR 150UH
L1203	1-414-400-11	s	INDUCTOR, 22UH
L1204	1-414-400-11	s	INDUCTOR, 22UH
L1205	1 414 400 11	s	INDUCTOR, 22UH
L1301	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1302	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1303	1-412-280-31	s	CHIP INDUCTOR 330UH (3225)
L1304	1-412-204-11	s	MICRO INDUCTOR 680UH
L1305	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1310	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1401	1-410-391-11	s	CHIP INDUCTOR 68UH (3225)
L1402	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1403	1-414-398-11	s	INDUCTOR (SMD) 10UH
L1501	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1502	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1503	1-410-393-11	s	CHIP INDUCTOR 100UH (3225)
L1504	1-410-658-31	s	INDUCTOR,CHIP 220UH (3225)
L1505	1-410-383-31	s	INDUCTOR,CHIP 15UH (3225)
L1506	1-410-387-11	s	CHIP INDUCTOR 33UH (3225)
L1507	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1601	1-410-388-31	s	CHIP INDUCTOR 39UH
L1602	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1603	1-414-398-11	s	INDUCTOR (SMD) 10UH
L1610	1-414-402-11	s	INDUCTOR (SMD) 47UH
L1701	1-414-400-11	s	INDUCTOR, 22UH
L1702	1-414-400-11	s	INDUCTOR, 22UH
L1801	1-414-400-11	s	INDUCTOR, 22UH
L1802	1-414-400-11	s	INDUCTOR, 22UH
L1803	1-410-392-11	s	CHIP INDUCTOR 82UH (3225)
L1804	1-410-392-11	s	CHIP INDUCTOR 82UH (3225)
L1805	1-414-400-11	s	INDUCTOR, 22UH
L1806	1-414-400-11	s	INDUCTOR, 22UH
L1807	1-414-400-11	s	INDUCTOR, 22UH
L1808	1-414-400-11	s	INDUCTOR, 22UH
L1810	1-410-803-11	s	CHIP INDUCTOR 0.047UH (3225)

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Ref. No. or Q'ty	Part No.	SP	Description
LV1401	1-406-746-11	s	COIL, VARIABLE
LV1601	1-406-746-11	s	COIL, VARIABLE
Q101	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q102	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q103	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q104	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q105	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q106	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q107	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q108	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q109	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q110	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q111	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q112	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q113	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q114	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q115	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q116	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q117	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q118	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q119	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q120	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q121	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q122	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q123	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q124	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q125	8 729 117 73	s	TRANSISTOR 2SC4178 F14
Q126	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q127	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q128	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q129	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q130	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q131	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q132	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q133	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q134	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q135	8-729-117-32	s	TRANSISTOR 2SC4177
Q136	8-729-117-32	s	TRANSISTOR 2SC4177
Q137	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q138	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q139	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q140	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q141	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q142	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q143	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q301	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q302	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q303	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q304	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q305	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q306	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q307	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q308	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q309	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q310	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q311	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q312	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q313	8-729-117-73	s	TRANSISTOR 2SC4178-F14

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Ref. No. or Q'ty	Part No.	SP	Description
Q314	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q315	8-729-143-07	s	TRANSISTOR 2SA1610-Y33
Q316	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q317	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q318	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q319	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q320	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q321	8-729-117-32	s	TRANSISTOR 2SC4177
Q322	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q501	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q502	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q503	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q504	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q505	8-729-904-41	s	TRANSISTOR FMY3
Q506	8-729-904-41	s	TRANSISTOR FMY3
Q507	8-729-904-41	s	TRANSISTOR FMY3
Q508	8-729-904-41	s	TRANSISTOR FMY3
Q509	8-729-904-41	s	TRANSISTOR FMY3
Q510	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q511	8-729-117-32	s	TRANSISTOR 2SC4177
Q512	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q513	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q514	8-729-117-32	s	TRANSISTOR 2SC4177
Q515	8-729-117-32	s	TRANSISTOR 2SC4177
Q516	8-729-117-32	s	TRANSISTOR 2SC4177
Q517	8-729-117-32	s	TRANSISTOR 2SC4177
Q518	8-729-117-32	s	TRANSISTOR 2SC4177
Q519	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q520	8-729-117-32	s	TRANSISTOR 2SC4177
Q521	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q522	8-729-117-32	s	TRANSISTOR 2SC4177
Q523	8-729-117-32	s	TRANSISTOR 2SC4177
Q524	8-729-117-32	s	TRANSISTOR 2SC4177
Q525	8-729-117-32	s	TRANSISTOR 2SC4177
Q526	8-729-117-32	s	TRANSISTOR 2SC4177
Q702	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q703	8-729-117-32	s	TRANSISTOR 2SC4177
Q704	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q705	8-729-117-32	s	TRANSISTOR 2SC4177
Q706	8-729-117-32	s	TRANSISTOR 2SC4177
Q707	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q708	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q709	8-729-117-32	s	TRANSISTOR 2SC4177
Q710	8-729-117-32	s	TRANSISTOR 2SC4177
Q711	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q712	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q713	8-729-117-32	s	TRANSISTOR 2SC4177
Q714	8-729-117-32	s	TRANSISTOR 2SC4177
Q715	8-729-117-32	s	TRANSISTOR 2SC4177
Q716	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q717	8-729-117-32	s	TRANSISTOR 2SC4177
Q718	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q719	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q720	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q721	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q722	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q723	8-729-117-31	s	TRANSISTOR 2SC4177-L5
Q902	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q903	8-729-029-14	s	TRANSISTOR DTC144EUA-T106

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Ref. No. or Q'ty	Part No.	SP	Description
Q904	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q905	8-729-106-60	s	TRANSISTOR 2SB1115A
Q906	8-729-106-68	s	TRANSISTOR 2SD1615A-GP
Q907	8-729-106-60	s	TRANSISTOR 2SB1115A
Q908	8-729-106-68	s	TRANSISTOR 2SD1615A-GP
Q909	8-729-106-60	s	TRANSISTOR 2SB1115A
Q910	8-729-106-68	s	TRANSISTOR 2SD1615A-GP
Q911	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q912	8-729-117-32	s	TRANSISTOR 2SC4177
Q913	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q914	8-729-117-32	s	TRANSISTOR 2SC4177
Q915	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q916	8-729-117-32	s	TRANSISTOR 2SC4177
Q917	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q918	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q919	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q920	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q921	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q922	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1101	8-729-117-32	s	TRANSISTOR 2SC4177
Q1102	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1103	8-729-117-32	s	TRANSISTOR 2SC4177
Q1104	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1105	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1106	8-729-907-26	s	TRANSISTOR IMX1
Q1107	8-729-904-04	s	TRANSISTOR FMS2
Q1108	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1109	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1110	8-729-907-26	s	TRANSISTOR IMX1
Q1111	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1201	8-729-117-32	s	TRANSISTOR 2SC4177
Q1202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1203	8-729-117-32	s	TRANSISTOR 2SC4177
Q1204	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1205	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1206	8-729-907-26	s	TRANSISTOR IMX1
Q1207	8-729-904-04	s	TRANSISTOR FMS2
Q1208	8-729-117-73	s	TRANSISTOR 2SC4178-F14
Q1209	8-729-907-26	s	TRANSISTOR IMX1
Q1210	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1301	8-729-907-26	s	TRANSISTOR IMX1
Q1302	8-729-117-32	s	TRANSISTOR 2SC4177
Q1401	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1402	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1403	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1404	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1405	8-729-140-47	s	TRANSISTOR 2SC3735-L-B35
Q1406	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1407	8-729-117-32	s	TRANSISTOR 2SC4177
Q1408	8-729-117-32	s	TRANSISTOR 2SC4177
Q1409	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1410	8-729-117-32	s	TRANSISTOR 2SC4177
Q1411	8-729-117-32	s	TRANSISTOR 2SC4177
Q1412	8-729-117-32	s	TRANSISTOR 2SC4177
Q1501	8-729-907-26	s	TRANSISTOR IMX1
Q1502	8-729-117-32	s	TRANSISTOR 2SC4177
Q1601	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1602	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1603	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6

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Ref. No. or Q'ty	Part No.	SP	Description
Q1604	8-729-140-47	s	TRANSISTOR 2SC3735-L-B35
Q1605	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1606	8-729-117-32	s	TRANSISTOR 2SC4177
Q1607	8-729-117-32	s	TRANSISTOR 2SC4177
Q1608	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q1609	8-729-117-32	s	TRANSISTOR 2SC4177
Q1610	8-729-117-32	s	TRANSISTOR 2SC4177
Q1611	8-729-117-32	s	TRANSISTOR 2SC4177
Q1801	8-729-117-32	s	TRANSISTOR 2SC4177
Q1802	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1803	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1804	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q1805	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
R101	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R102	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R103	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R104	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R105	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R106	1-218-671-11	s	RESISTOR,CHIP 130 1/16W (1608)
R107	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
R108	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
R109	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R110	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R111	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R116	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R117	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R118	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R119	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R120	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R121	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R122	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R123	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R125	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R126	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R127	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R128	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R129	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R130	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R131	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R132	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R133	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R134	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R135	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R136	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R137	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R138	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R139	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R140	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R141	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R142	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R143	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R144	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R145	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R146	1-218-665-11	s	RESISTOR,CHIP 75 1/16W (1608)
R147	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R148	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R149	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R150	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R151	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R153	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R154	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R155	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R156	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R157	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R158	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R159	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R160	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R161	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R162	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R163	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R164	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R165	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R166	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R167	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R168	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R169	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R170	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R171	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R172	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R173	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R174	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R175	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R176	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R177	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R178	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R179	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R180	1-218-683-11	s	RESISTOR,CHIP 430 1/16W (1608)
R181	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R182	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R183	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R184	1-218-683-11	s	RESISTOR,CHIP 430 1/16W (1608)
R185	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R186	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R187	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R188	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R189	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R190	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R191	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R192	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R193	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R194	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R195	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R196	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R197	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R198	1-218-682-11	s	RESISTOR,CHIP 390 1/16W (1608)
R199	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R200	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R201	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R202	1-218-681-11	s	RESISTOR,CHIP 360 1/16W (1608)
R203	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R204	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R205	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R206	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R207	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R208	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R209	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R210	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R211	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R212	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R213	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R214	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R215	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R216	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R217	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R218	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R219	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R220	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R221	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R222	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R223	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R224	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R225	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R228	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R229	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R230	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R231	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R233	1-216-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R234	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R235	1-218-686-11	s RESISTOR CHIP 560 1/16W (1608)
R236	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R237	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R238	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R239	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R240	1 218 728 11	s RESISTOR,METAL 33K 1/16W
R241	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R242	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R243	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R244	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R245	1-218-694-11	s RESISTOR CHIP 1.2K1/16W(1608)
R246	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R247	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R248	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R249	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R250	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R251	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R252	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R253	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R254	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R255	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R256	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R257	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R258	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R259	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R260	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R261	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R262	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R263	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R264	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R265	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R266	1-218-708-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R267	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R268	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R269	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R270	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R271	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R272	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R273	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R274	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R275	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R301	1-218-671-11	s RESISTOR,CHIP 130 1/16W (1608)
R302	1-218-670-11	s RESISTOR,CHIP 120 1/16W (1608)
R303	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R304	1-218-664-11	s RESISTOR,CHIP 68 1/16W (1608)
R305	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R306	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R307	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R308	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R309	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R310	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R311	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R312	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R313	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R316	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R317	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R318	1-218-664-11	s RESISTOR,CHIP 68 1/16W (1608)
R319	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R320	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R321	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R322	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R323	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R324	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R325	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R326	1 218 692 11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R328	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R329	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R330	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R331	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R332	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R333	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R334	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R335	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R337	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R338	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R339	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R340	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R341	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R342	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R343	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R344	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R345	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R346	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R347	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R348	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R349	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R350	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R351	1-218-685-11	s RESISTOR,METAL FILM 510 1/16W
R352	1-218-683-11	s RESISTOR CHIP 430 1/16W (1608)
R353	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R354	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R355	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R356	1-218-682-11	s RESISTOR CHIP 390 1/16W (1608)
R357	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R358	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R360	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R361	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R362	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R363	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R364	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R365	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R366	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R367	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R368	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R369	1-218-682-11	s	RESISTOR CHIP 390 1/16W (1608)
R370	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R371	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R372	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R373	1-218-681-11	s	RESISTOR CHIP 360 1/16W (1608)
R374	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R375	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R376	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R377	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R378	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R379	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R380	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R381	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R382	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R383	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R384	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R385	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R386	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R387	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R388	1 218 652 11	s	RESISTOR,CHIP 22 1/16W (1608)
R389	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R390	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R391	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R392	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R393	1-218-685-11	s	RESISTOR,METAL FILM 510 1/16W
R396	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R397	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R399	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R400	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R401	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R402	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R403	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R404	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R405	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R406	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R407	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R408	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R409	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R410	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R411	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R412	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R413	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R414	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R415	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R416	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R417	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R418	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R419	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R420	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R421	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R422	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R423	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R424	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R425	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R501	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R502	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R503	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R504	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R505	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R506	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R507	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R508	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R510	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R511	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R512	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R513	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R514	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R515	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R517	1-218-691-11	s	RESISTOR CHIP 910 1/16W (1608)
R518	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R519	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R521	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R522	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R523	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R524	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R525	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R526	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R527	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R528	1 218 726 11	s	RESISTOR CHIP 27K 1/16W (1608)
R529	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R530	1-218-711-11	s	RESISTOR,METAL 6.2K 1/16W
R531	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R532	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R533	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R534	1-218-675-11	s	RESISTOR,CHIP 200 1/16W (1608)
R535	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R537	1-218-721-11	s	RESISTOR,CHIP 16K 1/16W(1608)
R538	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R539	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R540	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R541	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R542	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R543	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R544	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R545	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R546	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R548	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R549	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R550	1-218-721-11	s	RESISTOR,CHIP 16K 1/16W(1608)
R551	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R552	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R553	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R555	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R556	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R557	1-218-721-11	s	RESISTOR,CHIP 16K 1/16W(1608)
R559	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R560	1-218-699-11	s	RESISTOR CHIP 2.0K 1/16W(1608)
R561	1-218-699-11	s	RESISTOR CHIP 2.0K 1/16W(1608)
R563	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R564	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R565	1-218-699-11	s	RESISTOR CHIP 2.0K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R566	1-218-699-11	s RESISTOR,CHIP 2.0K 1/16W(1608)
R568	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R569	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R571	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R572	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R573	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R574	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R575	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R576	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R577	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R578	1-218-707-11	s RESISTOR,CHIP 4.3K 1/16W(1608)
R579	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R580	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R581	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R582	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R583	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R584	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R586	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R587	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R588	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R589	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R590	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R591	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R592	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R593	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R594	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R596	1 218 652 11	s RESISTOR,CHIP 22 1/16W (1608)
R597	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R598	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R599	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R600	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R601	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R602	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R603	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R604	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R605	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R606	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R607	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R608	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R609	1-218-719-11	s RESISTOR,METAL 13K 1/16
R610	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R611	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R612	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R613	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R614	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R615	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R616	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R617	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R618	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R619	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R620	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R621	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R622	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R623	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R624	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R625	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R626	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R627	1-218-690-11	s RESISTOR,CHIP 820 1/16W (1608)
R628	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R629	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R630	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R631	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R633	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R634	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R635	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R636	1-218-687-11	s RESISTOR,CHIP 620 1/16W (1608)
R637	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R638	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R639	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R640	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R641	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R642	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R643	1-218-682-11	s RESISTOR,CHIP 390 1/16W (1608)
R644	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R645	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R646	1-218-664-11	s RESISTOR,CHIP 0 1/16W (1608)
R647	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R648	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R649	1-218-747-11	s RESISTOR,METAL 200K 1/16 (1608)
R701	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R702	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R703	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R704	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R705	1-218-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R706	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R707	1 218 711 11	s RESISTOR,METAL 6.2K 1/16W
R708	1-218-726-11	s RESISTOR,CHIP 27K 1/16W (1608)
R709	1-218-711-11	s RESISTOR,METAL 6.2K 1/16W
R710	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R711	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R712	1-218-681-11	s RESISTOR,CHIP 360 1/16W (1608)
R713	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R715	1-218-718-11	s RESISTOR,CHIP 12K 1/16W (1608)
R716	1-218-693-11	s RESISTOR,CHIP 1.1K 1/16W(1608)
R717	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R718	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R719	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R720	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R721	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R723	1-218-697-11	s RESISTOR,CHIP 1.6K 1/16W(1608)
R724	1-218-702-11	s RESISTOR,CHIP 2.7K 1/16W(1608)
R725	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R726	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R727	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R729	1-218-696-11	s RESISTOR,CHIP 1.5K 1/16W(1608)
R730	1-218-701-11	s RESISTOR,CHIP 2.4K 1/16W(1608)
R731	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R732	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R733	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R734	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R735	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R737	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R738	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R739	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R740	1-218-672-11	s RESISTOR,CHIP 150 1/16W(1608)
R741	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R742	1-218-672-11	s RESISTOR,CHIP 150 1/16W(1608)
R743	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R744	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R745	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R746	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R747	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R748	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R749	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R750	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R751	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R752	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R753	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R754	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R755	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R756	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R757	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R758	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R759	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R760	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R761	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R762	1-218-719-11	s	RESISTOR,METAL 13K 1/16
R763	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R764	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R765	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R766	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R767	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R768	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R769	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R770	1 218 680 11	s	RESISTOR,CHIP 330 1/16W(1608)
R771	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R772	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R773	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R774	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R775	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R776	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R777	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R778	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R779	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R780	1-218-690-11	s	RESISTOR CHIP 820 1/16W (1608)
R781	1-218-690-11	s	RESISTOR CHIP 820 1/16W (1608)
R782	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R783	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R784	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R785	1-218-690-11	s	RESISTOR CHIP 820 1/16W (1608)
R786	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R787	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R788	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R789	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R790	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R791	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R792	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R793	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R794	1-218-687-11	s	RESISTOR CHIP 620 1/16W (1608)
R795	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R796	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R797	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R798	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R799	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R800	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R801	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R802	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R803	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R806	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R901	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R902	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R903	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R905	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R906	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R907	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R908	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R909	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R910	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R911	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R912	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R913	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R915	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R916	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R917	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R918	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R919	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R920	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R921	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R922	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R923	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R924	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R925	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R926	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R928	1 218 740 11	s	RESISTOR,CHIP 100K 1/16W(1608)
R929	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R930	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R931	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R933	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R934	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R935	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R936	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R937	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R938	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R939	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R940	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R941	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R942	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R943	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R944	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R945	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R946	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R947	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R948	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R949	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R950	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R951	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R952	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R953	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R954	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R955	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R956	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R957	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R958	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R959	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R960	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R961	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R962	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R963	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R964	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R965	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R966	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R967	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R968	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R969	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R970	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R971	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R972	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R973	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R974	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R975	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R976	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R977	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R978	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R979	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R980	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R981	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R982	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R983	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R984	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R985	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R986	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R987	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R988	1 218 748 11	s RESISTOR,CHIP 220K 1/16W(1608)
R990	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R991	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R993	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R994	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R995	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R996	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R997	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R998	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R999	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1000	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1001	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1101	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R1102	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1103	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1104	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R1105	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1106	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1107	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1108	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1109	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1110	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1111	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1112	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1113	1-218-688-11	s RESISTOR,CHIP 680 1/16W(1608)
R1114	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1115	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1116	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1117	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1118	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1119	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1120	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1121	1-218-682-11	s RESISTOR CHIP 390 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R1122	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1123	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R1124	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1125	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1126	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R1127	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R1128	1-218-725-11	s RESISTOR,CHIP 24K 1/16W(1608)
R1129	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1130	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1131	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1132	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R1133	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1134	1-218-698-11	s RESISTOR,CHIP 1.8K 1/16W(1608)
R1135	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R1136	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1137	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R1138	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1139	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R1140	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1141	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1142	1-218-714-11	s RESISTOR,CHIP 8.2K 1/16W(1608)
R1143	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1145	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1146	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1147	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1149	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1151	1 218 692 11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1152	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1153	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1154	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1155	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1156	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1157	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1158	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R1159	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R1160	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1161	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1162	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1163	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1164	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1165	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1166	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R1167	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1168	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1201	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1202	1-218-679-91	s RESISTOR,METAL FILM 300 1/16W
R1203	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1204	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1205	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1206	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1207	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1208	1-218-688-11	s RESISTOR,CHIP 680 1/16W(1608)
R1209	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1210	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1211	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1212	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1213	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1214	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1215	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1216	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R1217	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1218	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R1219	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R1220	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1221	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1222	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1223	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1224	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R1225	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1226	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1227	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1228	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R1229	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1230	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R1231	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1232	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1233	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1234	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1235	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1237	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R1238	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1239	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1240	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1245	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1246	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1247	1 218 660 91	s	RESISTOR,CHIP 47 1/16W (1608)
R1248	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1249	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1250	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1251	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1252	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1253	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1268	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1301	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1302	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1303	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1304	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1305	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1306	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1307	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1308	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R1309	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1310	1-218-726-11	s	RESISTOR,CHIP 27K 1/16W (1608)
R1311	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1312	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R1313	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1314	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1315	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1316	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1317	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1318	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1319	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1320	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1321	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1322	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1323	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1324	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1325	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1326	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1328	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1329	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1330	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1331	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1332	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1333	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1334	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1335	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1336	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1337	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1338	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1339	1-218-730-11	s	RESISTOR,METAL FILM CHIP 39K
R1340	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1341	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1342	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1343	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R1344	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1345	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1346	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1347	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1349	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1350	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R1351	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1352	1-218-686-11	s	RESISTOR,CHIP 560 1/16W (1608)
R1353	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1354	1 218 684 11	s	RESISTOR,CHIP 470 1/16W (1608)
R1355	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1356	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1357	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1358	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R1359	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1360	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R1361	1-218-664-11	s	RESISTOR,CHIP 68 1/16W (1608)
R1362	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1363	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1364	1-218-717-11	s	RESISTOR,CHIP 11K 1/16W (1608)
R1365	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R1366	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1367	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1368	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R1369	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1370	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R1371	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1372	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1373	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1374	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1375	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1376	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1377	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1378	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1379	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R1380	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1381	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1382	1-218-687-11	s	RESISTOR,CHIP 620 1/16W (1608)
R1383	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1384	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1385	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1386	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R1387	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R1388	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R1389	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1390	1-218-703-11	s RESISTOR,METAL 3.0K 1/16(1608)
R1391	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R1392	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R1393	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R1394	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1395	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1396	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R1397	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R1398	1-218-752-11	s RESISTOR,CHIP 330K 1/16W(1608)
R1399	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1400	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1401	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1402	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1403	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R1404	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R1406	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1407	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1408	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1409	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1410	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R1411	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1412	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1413	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R1414	1 218 724 11	s RESISTOR,CHIP 22K 1/16W(1608)
R1415	1-218-725-11	s RESISTOR,CHIP 24K 1/16W(1608)
R1416	1-218-699-11	s RESISTOR CHIP 2.0K 1/16W(1608)
R1417	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1418	1-218-696-11	s RESISTOR CHIP 1.5K 1/16W(1608)
R1419	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1420	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R1421	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R1422	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1423	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R1424	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R1425	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1426	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R1428	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R1429	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1430	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1431	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1432	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1433	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1434	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1435	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1436	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1438	1-218-699-11	s RESISTOR CHIP 2.0K 1/16W(1608)
R1439	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R1441	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1444	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R1501	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1502	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1503	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1504	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1505	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1506	1-218-714-11	s RESISTOR,CHIP 8.2K 1/16W(1608)
R1507	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R1508	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1509	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)
R1510	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1511	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1512	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1513	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R1514	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1515	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1516	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1517	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1518	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1519	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R1520	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R1521	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R1522	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R1523	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R1524	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1525	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1526	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1528	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1529	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1530	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R1531	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R1533	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1534	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1535	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1536	1 218 668 11	s RESISTOR,CHIP 100 1/16W (1608)
R1537	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1538	1-218-730-11	s RESISTOR METAL FILM CHIP 39K
R1539	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1541	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1542	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R1544	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1545	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1546	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1547	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1548	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1549	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1550	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1551	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R1552	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R1553	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1554	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1555	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R1556	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R1557	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R1558	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R1559	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R1560	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1561	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1562	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R1563	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1564	1-218-719-11	s RESISTOR,METAL 13K 1/16
R1565	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R1566	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R1567	1-216-863-11	s RESISTOR,CHIP 3.3M 1/16W 1608
R1568	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R1569	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R1570	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1571	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1572	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1573	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1574	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R1575	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1576	1-216-855-11	s	RESISTOR,CHIP 680K 1/16W 1608
R1577	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1578	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1579	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R1580	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1581	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1582	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1583	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R1584	1-218-696-11	s	RESISTOR,CHIP 1.5K 1/16W(1608)
R1585	1-218-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R1586	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1587	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1588	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1589	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1590	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1591	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1592	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1593	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1594	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R1595	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1596	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1597	1 218 680 11	s	RESISTOR,CHIP 330 1/16W(1608)
R1598	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1599	1-218-702-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R1600	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1601	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1602	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1603	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1604	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1605	1-218-703-11	s	RESISTOR,METAL 3.0K 1/16 (1608)
R1606	1-218-718-11	s	RESISTOR,CHIP 12K 1/16W (1608)
R1607	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1608	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1609	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1610	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1611	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1612	1-218-752-11	s	RESISTOR,CHIP 330K 1/16W(1608)
R1613	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1614	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1615	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1616	1-218-736-11	s	RESISTOR,CHIP 68K 1/16W(1608)
R1617	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1618	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1619	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1620	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1621	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1622	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1623	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1624	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1625	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1626	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1627	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R1628	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1629	1-218-725-11	s	RESISTOR,CHIP 24K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1630	1-218-699-11	s	RESISTOR,CHIP 2.0K 1/16W(1608)
R1631	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1632	1-218-696-11	s	RESISTOR,CHIP 1.5K 1/16W(1608)
R1633	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1634	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1635	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1636	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1637	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1638	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1639	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1640	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1641	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1642	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1643	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1644	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1645	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1649	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1651	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1702	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1703	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1704	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1705	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1706	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1707	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1708	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1709	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1710	1 218 716 11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1711	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1712	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1713	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1714	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1715	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1716	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1717	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1719	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1720	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1722	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1724	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1725	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1726	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1727	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1728	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1731	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1732	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1733	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1734	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1737	1-218-736-11	s	RESISTOR,CHIP 68K 1/16W(1608)
R1738	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1800	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1801	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1802	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1803	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1804	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1805	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1806	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1807	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1808	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1809	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1810	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1811	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1812	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1813	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1814	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1815	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1816	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1817	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1818	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1820	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1821	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1822	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1823	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1824	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R1825	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1826	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1828	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1829	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1831	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1832	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1833	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1834	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1835	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1836	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1837	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1840	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1841	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1842	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1843	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1844	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1846	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1848	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1852	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1854	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1855	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1856	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1857	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1858	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1859	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1860	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1861	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1862	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1863	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1864	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R1865	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1867	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1868	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1869	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1870	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1871	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R1872	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1873	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1874	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1875	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1876	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R1877	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1878	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R1879	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R1880	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1881	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R1882	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1883	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1884	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1885	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1886	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1887	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1888	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1889	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R1890	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1891	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R1892	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R1893	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R1894	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R1895	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1896	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1897	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1898	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1899	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1900	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R1901	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1902	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1903	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1904	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1905	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R1906	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R1907	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1908	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1909	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1910	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R1911	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1912	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1913	1-218-735-11	s	RESISTOR,CHIP 62K 1/16W(1608)
R1914	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1915	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1916	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R1923	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R1924	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1925	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1926	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
RB1801	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB1802	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1803	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1808	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1809	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1810	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB1811	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RV101	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV102	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV104	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV105	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV106	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV107	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV108	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV109	1-237-031-11	s	RESISTOR,ADJ,CERMET 200
RV110	1-237-031-11	s	RESISTOR,ADJ,CERMET 200
RV111	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV112	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV113	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K

(DM-114P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RV301	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV302	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV303	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV304	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV305	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV306	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV307	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV308	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV309	1-237-031-11	s	RESISTOR,ADJ,CERMET 200
RV310	1-237-031-11	s	RESISTOR,ADJ,CERMET 200
RV311	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV312	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV313	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
RV501	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV502	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV503	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV504	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV505	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV506	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV701	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV702	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV703	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV704	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV1101	1-237-032-11	s	RESISTOR,ADJ,CERMET 500
RV1201	1-237-032-11	s	RESISTOR,ADJ,CERMET 500
RV1301	1-237-038-11	s	RESISTOR,ADJ,CERMET 50K
RV1401	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV1402	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV1410	1-237-035-11	s	RESISTOR,ADJ,CERMET 5K
RV1411	1-237-035-11	s	RESISTOR,ADJ,CERMET 5K
RV1501	1-237-038-11	s	RESISTOR,ADJ,CERMET 50K
RV1601	1-237-035-11	s	RESISTOR,ADJ,CERMET 5K
RV1602	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV1603	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV1604	1-237-036-11	s	RESISTOR,ADJ,CERMET 10K
RV1605	1-237-034-11	s	RESISTOR,ADJ,CERMET 2K
RV1606	1-237-033-11	s	RESISTOR,ADJ,CERMET 1K
RV1801	1-237-037-11	s	RESISTOR,ADJ,CERMET 20K
S101	1-571-275-31	s	SWITCH, SLIDE (1-1-2)
S301	1-571-275-31	s	SWITCH, SLIDE (1-1-2)
S501	1-571-275-31	s	SWITCH, SLIDE (1-1-2)
S901	1-692-270-41	s	SWITCH, SLIDE
S1701	1-692-271-31	s	SWITCH, SLIDE
S1801	1-692-270-41	s	SWITCH, SLIDE
X301	1-579-990-11	s	VIBRATOR, CERAMIC
X302	1-579-988-11	s	VIBRATOR, CERAMIC
X901	1-767-717-11	s	VIBRATOR, CRYSTAL
X1801	1-767-717-11	s	VIBRATOR, CRYSTAL

DPR-87 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8316-710-A	o	MOUNTED CIRCUIT BOARD, DPR-87
2pcs	3-603-737-01	o	LEVER,BOARD
5pcs	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1) (STEEL)
C1	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C2	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C4	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C5	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C6	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C7	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C8	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C9	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C10	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C11	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C12	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C13	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C14	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C15	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C16	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C17	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C18	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C19	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C20	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C21	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C22	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C23	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C25	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C26	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C27	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C28	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C29	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C30	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C31	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C32	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C33	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C34	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C35	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C36	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C37	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C38	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C39	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C40	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C41	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C42	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C43	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C44	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C45	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C46	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C47	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C48	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C49	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C50	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C51	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C52	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C53	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C54	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C55	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C56	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP Description
C57	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C58	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C59	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C60	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C61	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C62	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C63	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C64	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C65	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C66	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C67	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C68	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C69	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C70	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C71	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C72	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C73	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C74	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C75	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C76	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C77	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C78	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C79	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C80	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C81	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C82	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C83	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C84	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C85	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C86	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C87	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C88	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C89	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C90	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C91	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C92	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C93	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C94	1-115-169-11 s	CAPACITOR,TANTAL (SMD) 10MF
C95	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C96	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C97	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C98	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C99	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C100	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C101	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C102	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C103	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C104	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C105	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C106	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C107	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C108	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C109	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C110	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C111	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C113	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C114	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C116	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP Description
C117	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C118	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C119	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C120	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C121	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C122	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C123	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C124	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C125	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C126	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C127	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C128	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C129	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C130	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C131	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C132	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C133	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C134	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C135	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C136	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C137	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C138	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C139	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
CN32	1-695-453-11 s	CONNECTOR,BOARD TO BOARD 50P
CP1	1-767-141-21 s	OSCILLATOR, CRYSTAL
FB1	1-543-309-21 s	BEAD,FERRITE
FB2	1-543-309-21 s	BEAD,FERRITE
FL1	1-239-719-31 s	FILTER, CHIP EMI
FL3	1-117-193-11 s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL4	1-117-193-11 s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL5	1-239-719-31 s	FILTER, CHIP EMI
FL6	1-239-719-31 s	FILTER, CHIP EMI
FL7	1-239-719-31 s	FILTER, CHIP EMI
IC1	8-759-524-50 s	IC TC74VHC541FT(EL)
IC2	8-759-524-50 s	IC TC74VHC541FT(EL)
IC3	8-759-390-07 s	IC CXD8997R
IC4	8-759-524-50 s	IC TC74VHC541FT(EL)
IC5	8-759-524-50 s	IC TC74VHC541FT(EL)
IC6	8-759-456-26 s	IC 74LCX541MTCX
IC7	8-759-524-07 s	IC TC74VHC138FT(EL)
IC8	8-759-524-50 s	IC TC74VHC541FT(EL)
IC9	8-759-524-50 s	IC TC74VHC541FT(EL)
IC10	8-759-524-50 s	IC TC74VHC541FT(EL)
IC11	8-759-386-25 s	IC 74LCX245MTCX
IC12	8-759-523-81 s	IC TC74VHC08FT(EL)
IC13	8-759-524-50 s	IC TC74VHC541FT(EL)
IC14	8-759-524-50 s	IC TC74VHC541FT(EL)
IC15	8-759-386-25 s	IC 74LCX245MTCX
IC16	8-759-524-50 s	IC TC74VHC541FT(EL)
IC17	8-759-524-50 s	IC TC74VHC541FT(EL)
IC18	8-759-524-10 s	IC TC74VHC157FT(EL)
IC19	8-759-438-84 s	IC CXD9025R
IC20	8-759-474-51 s	IC CXD8973BR
IC21	8-759-557-59 s	IC UPD4516821AG5-A10B-9NF
IC22	8-759-557-59 s	IC UPD4516821AG5-A10B-9NF
IC23	8-759-557-59 s	IC UPD4516821AG5-A10B-9NF

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Ref. No. or Q'ty	Part No.	SP	Description
IC24	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC25	8-759-386-25	s	IC 74LCX245MTCX
IC26	8-759-375-21	s	IC CXD8974AR
IC27	8-759-386-26	s	IC 74LCX574MTCX
IC28	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC29	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC30	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC31	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC32	8-759-329-06	s	IC UPD42280GU-30-E2
IC33	8-759-329-06	s	IC UPD42280GU-30-E2
IC34	8-759-523-95	s	IC TC74VHC74FT(EL)
IC35	8-759-390-96	s	IC CXD8946Q
IC36	8-759-597-69	s	IC UPD4516161AG5-A10B-9NF-E2
IC37	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC38	8-759-523-95	s	IC TC74VHC74FT(EL)
IC39	8-759-449-09	s	IC CXD8945BR
IC40	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC41	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC42	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC45	8-759-525-59	s	IC CXD9012AR
IC46	8-759-597-69	s	IC UPD4516161AG5-A10B-9NF-E2
IC47	8-759-597-69	s	IC UPD4516161AG5-A10B-9NF-E2
R1	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R2	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R4	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R5	1 218 740 11	s	RESISTOR,CHIP 100K 1/16W(1608)
R6	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R7	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R9	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R10	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R11	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R12	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R13	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R15	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R16	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R17	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R18	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R19	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R20	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R21	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R22	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R23	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R24	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R25	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R26	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R27	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R28	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R29	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R30	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R31	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R32	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R33	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R35	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R37	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R38	1-218-656-11	s	RESISTOR CHIP 33 1/16W (1608)
R40	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R41	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)

(DPR-87 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R43	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R44	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R45	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R46	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R48	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R49	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R50	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R51	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R52	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R55	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R56	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R57	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R58	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R59	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R60	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R61	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R62	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R63	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R64	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R65	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R66	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R67	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R68	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R70	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R71	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R73	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
RB1	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB2	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB3	1-239-407-11	s	NETWORK, RESISTOR(CHIP TYPE)
RB4	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB5	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB6	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB7	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB8	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB9	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB10	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB11	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB12	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB13	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB14	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB15	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB16	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB17	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB18	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB19	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB20	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB21	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB22	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB23	1-239-409-11	s	RESISTOR NETWORK 47 (1608)

EQ-72 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-722-A	o MOUNTED CIRCUIT BOARD, EQ-72
2pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
C101	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C102	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C103	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C104	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C105	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V (105)
C106	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V (105)
C107	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C108	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C109	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C110	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C111	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C112	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C115	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C116	1-117-229-11	s CAPACITOR, (SMD) 10MF/10V
C118	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C151	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C152	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C153	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C154	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C158	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C202	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C205	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C209	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C210	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C219	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C220	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C221	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C222	1-126-391-11	s CAPACITOR ELECT 47MF/6.3V (105)
C240	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C241	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C242	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C303	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C304	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C305	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C311	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C312	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C313	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C314	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C315	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C316	1-162-920-11	s CAPACITOR,CERAMIC 27PF/50V CH
C317	1-162-916-11	s CAPACITOR,CERAMIC 12PF/50V CH
C318	1-162-910-11	s CAPACITOR,CERAMIC 5PF/50V 1608
C319	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C320	1-162-916-11	s CAPACITOR,CERAMIC 12PF/50V CH
C321	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C322	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C323	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C324	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C325	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C326	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C327	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C328	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C329	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP Description
C330	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C331	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C332	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C333	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C334	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C335	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C336	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C337	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C338	1-164-217-11	s CAPACITOR,CERAMIC 150PF/50V CH
C339	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C340	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C341	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C342	1-164-315-11	s CAPACITOR,CERAMIC 470PF/50V CH
C343	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C344	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C345	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C346	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C347	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C348	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C349	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C350	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C351	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C352	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C363	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C364	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C367	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C368	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C369	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C370	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C371	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C372	1-104-913-11	s CAPACITOR,CHIP TANTAL 10MF/16V
C373	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C374	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C375	1-164-156-11	s CAPACITOR,CERAMIC 0.1MF/25V F
C376	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C377	1-126-394-11	s CAPACITOR ELECT 10MF/16V (CHIP)
C378	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C379	1-164-156-11	s CAPACITOR,CERAMIC 0.1MF/25V F
C391	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C392	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C402	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C404	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C405	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C411	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C412	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C413	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C414	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C415	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C416	1-162-920-11	s CAPACITOR,CERAMIC 27PF/50V CH
C417	1-162-916-11	s CAPACITOR,CERAMIC 12PF/50V CH
C418	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C419	1-162-910-11	s CAPACITOR,CERAMIC 5PF/50V 1608
C420	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C421	1-162-916-11	s CAPACITOR,CERAMIC 12PF/50V CH
C422	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C423	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C424	1-162-919-11	s CAPACITOR,CERAMIC 22PF/50V CH
C425	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C426	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C427	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C428	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C429	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C430	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C431	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C432	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C433	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C434	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C435	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C436	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C437	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C438	1-164-217-11	s	CAPACITOR, CERAMIC 150PF/50V CH
C439	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C440	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C441	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C442	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C443	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C444	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C445	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C446	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C447	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C448	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C449	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C450	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C451	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C452	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C475	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C476	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C478	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C479	1-164-156-11	s	CAPACITOR, CERAMIC 0.1MF/25V F
C501	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C502	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C503	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C504	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C505	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C506	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C508	1-162-967-11	s	CAPACITOR, CERAMIC 3300PF/50V B
C509	1-162-967-11	s	CAPACITOR, CERAMIC 3300PF/50V B
C510	1-117-229-11	s	CAPACITOR, (SMD) 10MF/10V
C511	1-162-967-11	s	CAPACITOR, CERAMIC 3300PF/50V B
C512	1-162-967-11	s	CAPACITOR, CERAMIC 3300PF/50V B
C513	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C514	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C515	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C516	1-162-970-11	s	CAPACITOR, CERAMIC 0.01MF/25V B
C517	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C518	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C519	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C520	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C521	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C701	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C702	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C703	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C704	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C705	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C706	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C707	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C708	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C709	1-107-689-21	s	CAPACITOR, TANTALUM 1MF/35V

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Ref. No. or Q'ty	Part No.	SP	Description
C710	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C711	1-107-689-21	s	CAPACITOR, TANTALUM 1MF/35V
C712	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C713	1-164-315-11	s	CAPACITOR, CERAMIC 470PF/50V CH
C714	1-162-915-11	s	CAPACITOR, CERAMIC 10PF/50V CH
C715	1-162-915-11	s	CAPACITOR, CERAMIC 10PF/50V CH
C716	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C717	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C718	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C719	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C720	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C721	1-126-394-11	s	CAPACITOR, ELECT 10MF/16V (CHIP)
C722	1-126-394-11	s	CAPACITOR, ELECT 10MF/16V (CHIP)
CN1	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD) 1.5MM
CN3	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD) 1.5MM
CN4	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD) 1.5MM
CN7	1-573-806-21	s	PIN, CONNECTOR (6P) (SMD) 1.5MM
CN101	1-764-177-11	o	PIN, CONNECTOR (7P) (SMD) 1.5MM
CN102	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD) 1.5MM
CN401	1-695-453-11	s	CONNECTOR, BOARD TO BOARD 50P
CN900	1-573-768-21	o	PIN, CONNECTOR (5P) (SMD) 1.5MM
D701	8-719-941-23	s	DIODE DA204U
D702	8-719-991-27	s	LED CL-170G-CD
D703	8-719-026-34	s	LED CL-170UR-CD
D704	8-719-026-34	s	LED CL-170UR-CD
D705	8-719-941-23	s	DIODE DA204U
DL301	1-411-788-11	s	DELAY LINE
DL401	1-411-788-11	s	DELAY LINE
IC101	8-729-047-61	s	TRANSISTOR SI4925DY-T1
IC102	8-759-523-94	s	IC TC74VHC32FT (EL)
IC103	8-759-386-25	s	IC 74LCX245MTCX
IC105	8-752-075-37	s	IC CXA3054R
IC201	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC202	8-759-523-78	s	IC TC74VHC00FT (EL)
IC203	8-759-523-78	s	IC TC74VHC00FT (EL)
IC204	8-759-390-93	s	IC CXD8979R
IC206	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC241	8-759-523-81	s	IC TC74VHC08FT (EL)
IC242	8-759-388-62	s	IC NJU7062M (TE2)
IC302	8-759-441-31	s	IC MC14053BDTR2
IC303	8-752-075-38	s	IC CXA3053R
IC304	8-752-075-40	s	IC CXA3051R
IC361	8-729-047-61	s	TRANSISTOR SI4925DY-T1
IC362	8-729-045-28	s	TRANSISTOR SI4532DY-T1
IC363	8-759-635-27	s	IC M62352GP
IC371	8-759-112-53	s	IC UPC1663G
IC401	8-759-635-27	s	IC M62352GP
IC402	8-759-441-31	s	IC MC14053BDTR2
IC403	8-752-075-38	s	IC CXA3053R
IC404	8-752-075-40	s	IC CXA3051R
IC471	8-759-112-53	s	IC UPC1663G
IC501	8-759-524-10	s	IC TC74VHC157FT (EL)
IC502	8-759-390-95	s	IC CXD8944Q
IC505	8-759-359-66	s	IC TL082CPW (E05)
IC506	8-759-359-66	s	IC TL082CPW (E05)
IC509	8-759-386-25	s	IC 74LCX245MTCX
IC701	8-759-260-55	s	IC TLC272CPW (E05)
IC702	8-759-049-86	s	IC SN74HCT244APW (E05)

(EQ-72 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC703	8-759-392-62	s IC NM24C16LEM8
IC704	8-759-524-27	s IC TC74VHC244FT(EL)
IC705	8-759-441-31	s IC MC14053BDTR2
IC706	8-759-388-62	s IC NJU7062M (TE2)
IC707	8-759-441-31	s IC MC14053BDTR2
IC708	8-759-642-25	s IC HD6433437WV09X
IC709	8-759-523-78	s IC TC74VHC00FT(EL)
IC710	8-759-491-46	s IC TC74VHCT04AFT (EL)
L101	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L102	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L103	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L105	1-412-189-11	s MICRO INDUCTOR
L203	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L204	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L300	1-412-140-31	s INDUCTOR, MICRO 1.8UH
L301	1-412-140-31	s INDUCTOR, MICRO 1.8UH
L360	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L361	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L362	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L363	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L364	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L365	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L366	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L400	1-412-140-31	s INDUCTOR, MICRO 1.8UH
L401	1-412-140-31	s INDUCTOR, MICRO 1.8UH
L501	1-414-392-21	s INDUCTOR (SMD) 1.0UH
Q101	8-729-028-91	s TRANSISTOR DTA144EUA-T106
Q102	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q103	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q104	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q105	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q106	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q107	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q108	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q109	8-729-117-32	s TRANSISTOR 2SC4177
Q110	8-729-117-32	s TRANSISTOR 2SC4177
Q111	8-729-117-32	s TRANSISTOR 2SC4177
Q112	8-729-117-32	s TRANSISTOR 2SC4177
Q204	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q205	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q206	8-729-028-91	s TRANSISTOR DTA144EUA-T106
Q241	8-729-028-91	s TRANSISTOR DTA144EUA-T106
Q301	8-729-117-32	s TRANSISTOR 2SC4177
Q302	8-729-117-32	s TRANSISTOR 2SC4177
Q303	8-729-117-32	s TRANSISTOR 2SC4177
Q304	8-729-117-32	s TRANSISTOR 2SC4177
Q361	8-729-028-91	s TRANSISTOR DTA144EUA-T106
Q362	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q363	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q364	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q365	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q371	8-729-117-32	s TRANSISTOR 2SC4177
Q402	8-729-117-32	s TRANSISTOR 2SC4177
Q403	8-729-117-32	s TRANSISTOR 2SC4177
Q404	8-729-117-32	s TRANSISTOR 2SC4177
Q471	8-729-117-32	s TRANSISTOR 2SC4177
Q510	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q700	8-729-029-14	s TRANSISTOR DTC144EUA-T106

(EQ-72 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R1	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R2	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R3	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R4	1-218-661-11	s RESISTOR,CHIP 51 1/16W (1608)
R101	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R102	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R103	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R104	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R105	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R107	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R109	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R110	1-218-694-11	s RESISTOR CHIP 1.2K1/16W(1608)
R111	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R112	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R113	1-218-694-11	s RESISTOR CHIP 1.2K1/16W(1608)
R114	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R115	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R116	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R117	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R118	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R120	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R121	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R122	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R123	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R124	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R125	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R126	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R127	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R128	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R129	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R138	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R139	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R140	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R141	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R151	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R152	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R153	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R154	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R160	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R162	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R164	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R166	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R168	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R170	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R201	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R202	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R203	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R204	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R207	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R208	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R210	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R211	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R212	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R213	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R214	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R215	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R216	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R217	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R219	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)

(EQ-72 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R220	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R241	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R242	1-218-736-11	s	RESISTOR,CHIP 68K 1/16W(1608)
R243	1-218-736-11	s	RESISTOR,CHIP 68K 1/16W(1608)
R244	1-218-733-11	s	RESISTOR,CHIP 51K 1/16W (1608)
R245	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R246	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R301	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R303	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R304	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R305	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R306	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R307	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R308	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R309	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R311	1-218-689-11	s	RESISTOR CHIP 750 1/16W (1608)
R312	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R313	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R314	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R315	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R316	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R317	1-218-689-11	s	RESISTOR CHIP 750 1/16W (1608)
R318	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R319	1-218-665-11	s	RESISTOR CHIP 75 1/16W (1608)
R320	1-218-689-11	s	RESISTOR CHIP 750 1/16W (1608)
R321	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R322	1 218 684 11	s	RESISTOR CHIP 470 1/16W (1608)
R323	1-218-735-11	s	RESISTOR CHIP 62K 1/16W(1608)
R324	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R325	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R326	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R327	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R328	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R329	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R330	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R331	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R332	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R333	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R334	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R335	1-218-709-11	s	RESISTOR,METAL 5.1K 1/16W
R336	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R337	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R338	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R339	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R340	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R341	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R342	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R343	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R344	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R345	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R346	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R360	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R361	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R362	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R363	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R364	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R365	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R366	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R367	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)

(EQ-72 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R370	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R371	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R372	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R373	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R375	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R376	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R377	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R378	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R391	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R392	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R401	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R407	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R408	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R409	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R411	1-218-689-11	s	RESISTOR CHIP 750 1/16W (1608)
R412	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R413	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R414	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R415	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R416	1-218-679-91	s	RESISTOR,METAL FILM 300 1/16W
R417	1-218-689-11	s	RESISTOR CHIP 750 1/16W (1608)
R418	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R419	1-218-665-11	s	RESISTOR CHIP 75 1/16W (1608)
R420	1-218-689-11	s	RESISTOR CHIP 750 1/16W (1608)
R421	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R422	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R423	1 218 735 11	s	RESISTOR CHIP 62K 1/16W(1608)
R424	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R425	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R426	1-218-706-11	s	RESISTOR,CHIP 3.9K 1/16W(1608)
R427	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R428	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R429	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R430	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R431	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R432	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R433	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R434	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R435	1-218-709-11	s	RESISTOR,METAL 5.1K 1/16W
R436	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R437	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R438	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R439	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R440	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R441	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R442	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R443	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R444	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R445	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R446	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R470	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R471	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R472	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R473	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R474	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R475	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R476	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R477	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R478	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)

(EQ-72 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R503	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R504	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R505	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R506	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R507	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R508	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R509	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R510	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R511	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R512	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R513	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R514	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R515	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R516	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R517	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R518	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R519	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R520	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R521	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R522	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R523	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R524	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R525	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R526	1-218-729-11 s	RESISTOR,CHIP 36K 1/16W(1608)
R527	1-218-722-11 s	RESISTOR,CHIP 18K 1/16W 1608
R528	1-218-722-11 s	RESISTOR,CHIP 18K 1/16W 1608
R529	1 218 676 11 s	RESISTOR,CHIP 220 1/16W(1608)
R530	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R531	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R532	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R533	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R534	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R535	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R536	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R537	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R538	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R539	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R540	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R541	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R542	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R543	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R700	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R701	1-218-712-11 s	RESISTOR,METAL 6.8K 1/16W
R702	1-218-746-11 s	RESISTOR,METAL 180K 1/16W
R703	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R704	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R705	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R706	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R707	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R708	1-218-712-11 s	RESISTOR,METAL 6.8K 1/16W
R709	1-218-746-11 s	RESISTOR,METAL 180K 1/16W
R710	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R711	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R712	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R713	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R714	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R715	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R716	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R717	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)

(EQ-72 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R718	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R719	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R720	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R721	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R722	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R723	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R724	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R725	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R726	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R727	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R729	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R730	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R731	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R732	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R733	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R734	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R735	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R736	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R737	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R738	1-218-708-11 s	RESISTOR,CHIP 4.7K 1/16W(1608)
R739	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R740	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R741	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R742	1-218-708-11 s	RESISTOR,CHIP 4.7K 1/16W(1608)
R743	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R744	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R745	1 218 668 11 s	RESISTOR,CHIP 100 1/16W (1608)
R746	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R750	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R751	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R752	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R753	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R754	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
S701	1-572-473-11 s	SWITCH, TACTILE
X701	1-767-464-11 s	VIBRATOR, CRYSTAL

HP-100 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8323-002-A	o	MOUNTED CIRCUIT BOARD, HP-100
1pc	X-3167-825-1	o	KNOB ASSY (P), VOL
1pc	7-623-510-01	s	EARTH LUG 4
C1	1-115-340-11	s	CAPACITOR CERAMIC 0.22MF/25V B
C2	1-115-340-11	s	CAPACITOR CERAMIC 0.22MF/25V B
C3	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C4	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C5	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C6	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C7	1-104-609-11	s	CAPACITOR, ELECT 100MF/4V CHIP
C8	1-104-609-11	s	CAPACITOR, ELECT 100MF/4V CHIP
C9	1-104-760-11	s	CAPACITOR CERAMIC 0.047MF/50V
C10	1-104-760-11	s	CAPACITOR CERAMIC 0.047MF/50V
CN8	1-764-007-11	o	PIN, CONNECTOR (SMD) 12P
CN9	1-565-327-11	s	JACK, LARGE TYPE (6.3MM)
FL1	1-239-895-11	s	FILTER, EMI (SMD)
FL2	1-239-895-11	s	FILTER, EMI (SMD)
IC1	8-759-711-85	s	IC NJM4580E-D
IC2	8-759-369-73	s	IC NJM4556AM
R1	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R2	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R3	1-216-661-11	s	RESISTOR,CHIP 2.7K 1/10W(2012)
R4	1-216-661-11	s	RESISTOR,CHIP 2.7K 1/10W(2012)
R5	1-216-661-11	s	RESISTOR,CHIP 2.7K 1/10W(2012)
R6	1 216 661 11	s	RESISTOR,CHIP 2.7K 1/10W(2012)
R7	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R8	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R9	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R10	1-216-683-11	s	RESISTOR CHIP 22K 1/10W (2012)
R11	1-216-617-11	s	RESISTOR,CHIP 39 1/10W(2012)
R12	1-216-617-11	s	RESISTOR,CHIP 39 1/10W(2012)
RV1	1-241-577-11	s	VAR, CARBON 20K/20K

MB-757A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8323-005-A	o	MOUNTED CIRCUIT BOARD, MB-757A
48pcs	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1) (STEEL)
CN1	1-695-320-21	s	PIN, CONNECTOR(1.5MM)SMD 2P
CN8	1-764-007-11	o	PIN, CONNECTOR (SMD) 12P
CN12	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN22	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN32	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN42	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN52	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN62	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN72	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN82	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN101	1-778-533-11	o	CONNECTOR, BOARD TO BOARD 140P
CN201	1-778-552-11	o	PIN, CONNECTOR 30P
CN204	1-580-756-21	o	PIN, CONNECTOR 7P
CN301	1-764-441-21	s	CONNECTOR, FPC (30P)
CN302	1-764-441-21	s	CONNECTOR, FPC (30P)
CN303	1-764-441-21	s	CONNECTOR, FPC (30P)
CN401	1-691-845-11	o	CONNECTOR (SQUARE TYPE) 50P
CN600	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD)1.5MM
CN601	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD)1.5MM
CN700	1-766-382-11	o	PIN, CONNECTOR (10P) (SMD)1.5M
CN701	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD)1.5MM
CN702	1-691-550-11	s	PIN, CONNECTOR (3P) (SMD)1.5MM
CN704	1-573-768-21	o	PIN, CONNECTOR (5P) (SMD)1.5MM
CN901	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD)1.5MM

PA-218 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8316-916-A	o	MOUNTED CIRCUIT BOARD, PA-218
1pc	3-613-301-01	o	INSULATING SHEET(PA-218)
C800	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C801	1-164-739-11	s	CAPACITOR CERAMIC 560PF (1608)
C803	1-162-925-11	s	CAPACITOR,CERAMIC 68PF/50V CH
C804	1-162-925-11	s	CAPACITOR,CERAMIC 68PF/50V CH
C805	1-162-925-11	s	CAPACITOR,CERAMIC 68PF/50V CH
C806	1-162-925-11	s	CAPACITOR,CERAMIC 68PF/50V CH
C807	1-110-569-11	s	CAPACITOR CHIP TANTAL47MF/6.3V
C808	1-110-569-11	s	CAPACITOR CHIP TANTAL47MF/6.3V
C809	1-104-553-11	s	CAPACITOR FILM 0.015MF/16V
C810	1-104-553-11	s	CAPACITOR FILM 0.015MF/16V
C811	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C812	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C813	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C814	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C815	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C816	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C817	1-162-963-11	s	CAPACITOR,CERAMIC 680PF/50V(B)
C818	1-162-963-11	s	CAPACITOR,CERAMIC 680PF/50V(B)
C819	1-104-549-11	s	CAPACITOR FILM 0.0068MF/16V
C820	1-104-549-11	s	CAPACITOR FILM 0.0068MF/16V
C821	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C822	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C823	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C824	1-104-851-11	s	CAPACITOR,TANTALUM 10MF/10V
C825	1 164 227 11	s	CAPACITOR,CERAMIC 0.022MF/25V
C826	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C827	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C828	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C829	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C830	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C831	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
C832	1-113-991-11	s	CAPACITOR TANTALUM 33MF/16V
CN1	1-580-789-21	o	PIN,CONNECTOR (SMD)
CN204	1-580-756-21	o	PIN,CONNECTOR 7P
CN602	1-580-057-11	o	PIN,CONNECTOR 4P
CN900	1-580-057-11	o	PIN,CONNECTOR 4P
D800	8-719-404-35	s	DIODE MA141WK
IC801	8-759-700-84	s	IC NJM2041MD
IC802	8-759-700-84	s	IC NJM2041MD
Q800	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q801	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q802	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q803	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q804	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q805	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q806	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q807	8-729-141-53	s	TRANSISTOR 2SK94-X2X3X4
Q808	8-729-141-53	s	TRANSISTOR 2SK94-X2X3X4
Q809	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q810	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q811	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q812	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q813	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q814	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L

(PA-218 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q815	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q816	8-729-141-48	s	TRANSISTOR 2SB624-BV345
R800	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R801	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R802	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
R803	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R804	1-218-670-11	s	RESISTOR,CHIP 120 1/16W (1608)
R805	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R806	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R807	1-218-696-11	s	RESISTOR CHIP 1.5K 1/16W(1608)
R808	1-218-696-11	s	RESISTOR CHIP 1.5K 1/16W(1608)
R809	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R810	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R811	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R812	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R813	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R814	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R815	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R816	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R817	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R818	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R819	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R820	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R821	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R822	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R823	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R824	1 218 716 11	s	RESISTOR,CHIP 10K 1/16W(1608)
R825	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R826	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R827	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R828	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R829	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R830	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R831	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R832	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R833	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R834	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R835	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R836	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R837	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R838	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R839	1-218-666-11	s	RESISTOR CHIP 82 1/16W (1608)
R840	1-218-666-11	s	RESISTOR CHIP 82 1/16W (1608)
RV800	1-241-269-11	s	RESISTOR, ADJ, CERMET 500K
RV801	1-241-269-11	s	RESISTOR, ADJ, CERMET 500K
RV802	1-241-263-11	s	RESISTOR ADJ 5K (CERMET)
RV803	1-241-263-11	s	RESISTOR ADJ 5K (CERMET)
RV804	1-241-262-11	s	RESISTOR ADJ 2K (CERMET)
RV805	1-241-262-11	s	RESISTOR ADJ 2K (CERMET)
S800	1-692-881-41	s	SWITCH, SLIDE
S801	1-692-881-41	s	SWITCH, SLIDE

PSW-72 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-971-A	o MOUNTED CIRCUIT BOARD, PSW-72
CN1	1-695-320-21	s PIN, CONNECTOR(1.5MM)SMD 2P
S1	1-762-001-11	s SWITCH, TOGGLE

RE-150 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-734-A	s MOUNTED CIRCUIT BOARD, RE-150
3pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
C1	1-164-182-11	s CAPACITOR, CERAMIC 3300PF/100V
C2	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C3	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C4	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C5	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C6	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C7	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C8	1-126-946-11	s CAPACITOR,ELECT 6800MF/25V
C9	1-126-943-11	s CAPACITOR,ELECT 2200MF/25V
C10	1-107-686-11	s CAPACITOR,CHIP ELECT 4.7MF/16V
C11	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C12	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C13	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C14	1-107-689-21	s CAPACITOR TANTALUM 1MF/35V
C15	1-107-689-21	s CAPACITOR TANTALUM 1MF/35V
C16	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C17	1-107-686-11	s CAPACITOR,CHIP ELECT 4.7MF/16V
C18	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C19	1-107-689-21	s CAPACITOR TANTALUM 1MF/35V
C20	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C21	1-104-478-11	s CAPACITOR TANTALUM 10MF/35V
C22	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C23	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C24	1-107-689-21	s CAPACITOR TANTALUM 1MF/35V
C25	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C26	1-163-133-00	s CAPACITOR,CHIP CERAMIC 470PF
C27	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C28	1-107-689-21	s CAPACITOR TANTALUM 1MF/35V
C29	1-107-686-11	s CAPACITOR,CHIP ELECT 4.7MF/16V
C30	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C31	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C32	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C33	1-107-686-11	s CAPACITOR,CHIP ELECT 4.7MF/16V
C34	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C35	1-107-686-11	s CAPACITOR,CHIP ELECT 4.7MF/16V
C36	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C37	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C38	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C39	1-163-251-11	s CAPACITOR CERAMIC 100PF/50V
C40	1-163-251-11	s CAPACITOR CERAMIC 100PF/50V
C41	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C101	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C102	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C103	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C104	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C105	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C106	1-113-577-11	s CAPACITOR,ELECT 47MF/16V
C107	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C108	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C109	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C110	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C201	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C202	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C203	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C204	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C205	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V

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Ref. No. or Q'ty	Part No.	SP Description
C206	1-113-577-11	s CAPACITOR,ELECT 47MF/16V
C207	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C208	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C209	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C210	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C211	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C212	1-163-017-00	s CAPACITOR,CHIP CERAMIC 4700PF
C301	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C302	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C303	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C304	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C305	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C306	1-127-518-11	s CAPACITOR,ELECT 100MF/16V
C307	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C308	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C310	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C311	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C351	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C352	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C353	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C354	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C355	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C356	1-127-518-11	s CAPACITOR,ELECT 100MF/16V
C357	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C358	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C359	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C360	1 163 037 11	s CAPACITOR,CHIP CERAMIC 0.022MF
C401	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C402	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C403	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C404	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C405	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C406	1-113-577-11	s CAPACITOR,ELECT 47MF/16V
C407	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C408	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C409	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C410	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C501	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C502	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C503	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C504	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C505	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C506	1-127-518-11	s CAPACITOR,ELECT 100MF/16V
C507	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C508	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C509	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C510	1-104-760-11	s CAPACITOR CERAMIC 0.047MF/50V
C551	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C552	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C553	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C554	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C555	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C556	1-127-518-11	s CAPACITOR,ELECT 100MF/16V
C557	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C558	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C559	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C560	1-104-760-11	s CAPACITOR CERAMIC 0.047MF/50V
C601	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C602	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF

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Ref. No. or Q'ty	Part No.	SP Description
C603	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C604	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C605	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C606	1-113-577-11	s CAPACITOR,ELECT 47MF/16V
C607	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C608	1-111-034-11	s CAPACITOR,ELECT 220MF/16V(105C
C609	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C610	1-107-687-11	s CAPACITOR TANTALUM 3.3MF/20V
C611	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C612	1-163-017-00	s CAPACITOR,CHIP CERAMIC 4700PF
C701	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C702	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C703	1-111-110-11	s CAPACITOR ELECT 39MF/50V(105C)
C704	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C705	1-111-110-11	s CAPACITOR ELECT 39MF/50V(105C)
C706	1-135-072-21	s CAPACITOR,TANTALUM 0.22MF/35V
C707	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C801	1-127-513-00	s CAPACITOR,ELECT 15MF/25V
C802	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C803	1-107-686-11	s CAPACITOR,CHIP ELECT 4.7MF/16V
C804	1-163-009-11	s CAPACITOR,CERAMIC 1000PF/50V
C900	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C901	1-126-399-11	s CAPACITOR ELECT 10MF/35V(CHIP)
C902	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C903	1-126-399-11	s CAPACITOR ELECT 10MF/35V(CHIP)
C904	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C905	1 107 689 21	s CAPACITOR TANTALUM 1MF/35V
C906	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
C907	1-115-339-11	s CAPACITOR CERAMIC 0.1MF/50V
CN1	1-564-708-11	o PIN,CONNECTOR (6P)
CN2	1-566-982-11	o PIN HEADER,STRAIGHT 9P
CN3	1-564-704-11	s PIN,CONNECTOR (2P)
D1	8-719-801-78	s DIODE 1SS184
D2	8-719-029-67	s DIODE RD5.6UJN-T1
D3	8-719-040-04	s DIODE MA-721WK-TX
D4	8-719-027-45	s DIODE MA740
D5	8-719-027-45	s DIODE MA740
D6	8-719-104-34	s DIODE 1S2836
D7	8-719-938-75	s DIODE SB05-05CP (RECTI)
D8	8-719-938-75	s DIODE SB05-05CP (RECTI)
D9	8-719-801-78	s DIODE 1SS184
D10	8-719-104-34	s DIODE 1S2836
D11	8-719-104-34	s DIODE 1S2836
D12	8-719-801-78	s DIODE 1SS184
D13	8-719-104-34	s DIODE 1S2836
D101	8-719-938-75	s DIODE SB05-05CP (RECTI)
D102	8-719-938-75	s DIODE SB05-05CP (RECTI)
D201	8-719-938-75	s DIODE SB05-05CP (RECTI)
D202	8-719-938-75	s DIODE SB05-05CP (RECTI)
D301	8-719-938-75	s DIODE SB05-05CP (RECTI)
D302	8-719-938-75	s DIODE SB05-05CP (RECTI)
D351	8-719-938-75	s DIODE SB05-05CP (RECTI)
D352	8-719-938-75	s DIODE SB05-05CP (RECTI)
D401	8-719-938-75	s DIODE SB05-05CP (RECTI)
D402	8-719-938-75	s DIODE SB05-05CP (RECTI)
D501	8-719-938-75	s DIODE SB05-05CP (RECTI)
D502	8-719-938-75	s DIODE SB05-05CP (RECTI)
D551	8-719-938-75	s DIODE SB05-05CP (RECTI)

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Ref. No. or Q'ty	Part No.	SP	Description	
D552	8-719-938-75	s	DIODE SB05-05CP	(RECTI)
D601	8-719-938-75	s	DIODE SB05-05CP	(RECTI)
D602	8-719-938-75	s	DIODE SB05-05CP	(RECTI)
D701	8-719-210-43	s	DIODE EC10QS06	
D801	8-719-104-34	s	DIODE 1S2836	
D802	8-719-104-34	s	DIODE 1S2836	
D803	8-719-104-34	s	DIODE 1S2836	
D804	8-719-104-34	s	DIODE 1S2836	
D805	8-719-104-34	s	DIODE 1S2836	
D806	8-719-104-34	s	DIODE 1S2836	
D901	8-719-104-34	s	DIODE 1S2836	
IC1	8-759-560-89	s	IC MB3761PF-ER	
IC2	8-759-260-57	s	IC TL1451ACPW-E05	
IC3	8-759-260-57	s	IC TL1451ACPW-E05	
IC4	8-759-260-57	s	IC TL1451ACPW-E05	
IC5	8-759-260-57	s	IC TL1451ACPW-E05	
IC6	8-759-066-68	s	IC REF-03GS	
IC7	8-759-260-57	s	IC TL1451ACPW-E05	
IC8	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC9	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC10	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC11	8-759-234-20	s	IC TC7S08F	
IC12	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC13	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC14	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC18	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC19	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC20	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC21	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC22	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC23	8-729-046-11	s	TRANSISTOR SI4420DY-T1	
IC101	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC201	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC301	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC351	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC401	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC501	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC551	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC601	8-729-045-53	s	TRANSISTOR SI4431DY-T1	
IC900	8-759-542-91	s	IC S-80840ANUP-ED4-T2	
IC901	8-759-710-88	s	IC NJM431U	
IC902	8-759-560-89	s	IC MB3761PF-ER	
IC903	8-759-523-97	s	IC TC74VHC123AFT(EL)	
IC904	8-759-234-20	s	IC TC7S08F	
L101	1-409-579-11	s	COIL, CHOKE 8.2UH	
L102	1-411-967-11	s	COIL, CHOKE 33UH	
L103	1-409-579-11	s	COIL, CHOKE 8.2UH	
L201	1-409-579-11	s	COIL, CHOKE 8.2UH	
L202	1-411-967-11	s	COIL, CHOKE 33UH	
L203	1-409-579-11	s	COIL, CHOKE 8.2UH	
L301	1-409-579-11	s	COIL, CHOKE 8.2UH	
L302	1-411-967-11	s	COIL, CHOKE 33UH	
L303	1-409-579-11	s	COIL, CHOKE 8.2UH	
L304	1-409-579-11	s	COIL, CHOKE 8.2UH	
L351	1-409-579-11	s	COIL, CHOKE 8.2UH	
L352	1-411-967-11	s	COIL, CHOKE 33UH	
L353	1-409-579-11	s	COIL, CHOKE 8.2UH	
L354	1-409-579-11	s	COIL, CHOKE 8.2UH	

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Ref. No. or Q'ty	Part No.	SP	Description	
L401	1-409-579-11	s	COIL, CHOKE 8.2UH	
L402	1-411-967-11	s	COIL, CHOKE 33UH	
L403	1-409-579-11	s	COIL, CHOKE 8.2UH	
L501	1-409-579-11	s	COIL, CHOKE 8.2UH	
L502	1-411-967-11	s	COIL, CHOKE 33UH	
L503	1-409-579-11	s	COIL, CHOKE 8.2UH	
L504	1-409-579-11	s	COIL, CHOKE 8.2UH	
L551	1-409-579-11	s	COIL, CHOKE 8.2UH	
L552	1-411-967-11	s	COIL, CHOKE 33UH	
L553	1-409-579-11	s	COIL, CHOKE 8.2UH	
L554	1-409-579-11	s	COIL, CHOKE 8.2UH	
L601	1-409-579-11	s	COIL, CHOKE 8.2UH	
L602	1-411-967-11	s	COIL, CHOKE 33UH	
L603	1-409-579-11	s	COIL, CHOKE 8.2UH	
L701	1-409-579-11	s	COIL, CHOKE 8.2UH	
L702	1-409-669-11	s	COIL, CHOKE 470UH	
Q1	8-729-047-61	s	TRANSISTOR SI4925DY-T1	
Q2	8-729-112-65	s	TRANSISTOR 2SA1462	
Q3	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q4	8-729-027-38	s	TRANSISTOR DTA144EAK-T146	
Q5	8-729-027-38	s	TRANSISTOR DTA144EAK-T146	
Q6	8-729-112-65	s	TRANSISTOR 2SA1462	
Q7	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q10	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q11	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q15	8-729-112-65	s	TRANSISTOR 2SA1462	
Q16	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q17	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q24	8-729-118-56	s	FET 2SK852-X2	
Q25	8-729-024-45	s	TRANSISTOR 2SK2315TY	
Q26	1-801-806-11	s	TRANSISTOR DTC144EAK	
Q27	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q101	8-729-012-35	s	FET 2SK711-BL	
Q102	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q103	8-729-112-65	s	TRANSISTOR 2SA1462	
Q104	8-729-031-39	s	TRANSISTOR MTD20N03HDL	
Q105	8-729-027-44	s	TRANSISTOR DTC114TKA-T146	
Q201	8-729-012-35	s	FET 2SK711-BL	
Q202	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q203	8-729-112-65	s	TRANSISTOR 2SA1462	
Q204	8-729-031-39	s	TRANSISTOR MTD20N03HDL	
Q210	8-729-027-44	s	TRANSISTOR DTC114TKA-T146	
Q301	8-729-012-35	s	FET 2SK711-BL	
Q302	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q303	8-729-112-65	s	TRANSISTOR 2SA1462	
Q304	8-729-031-39	s	TRANSISTOR MTD20N03HDL	
Q305	8-729-027-44	s	TRANSISTOR DTC114TKA-T146	
Q351	8-729-012-35	s	FET 2SK711-BL	
Q352	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q353	8-729-112-65	s	TRANSISTOR 2SA1462	
Q354	8-729-031-39	s	TRANSISTOR MTD20N03HDL	
Q355	8-729-027-44	s	TRANSISTOR DTC114TKA-T146	
Q401	8-729-012-35	s	FET 2SK711-BL	
Q402	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6	
Q403	8-729-112-65	s	TRANSISTOR 2SA1462	
Q404	8-729-031-39	s	TRANSISTOR MTD20N03HDL	
Q405	8-729-027-44	s	TRANSISTOR DTC114TKA-T146	
Q501	8-729-012-35	s	FET 2SK711-BL	

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Ref. No. or Q'ty	Part No.	SP	Description
Q502	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q503	8-729-112-65	s	TRANSISTOR 2SA1462
Q504	8-729-031-39	s	TRANSISTOR MTD20N03HDL
Q505	8-729-027-44	s	TRANSISTOR DTC114TKA-T146
Q551	8-729-012-35	s	FET 2SK711-BL
Q552	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q553	8-729-112-65	s	TRANSISTOR 2SA1462
Q554	8-729-031-39	s	TRANSISTOR MTD20N03HDL
Q555	8-729-027-44	s	TRANSISTOR DTC114TKA-T146
Q601	8-729-012-35	s	FET 2SK711-BL
Q602	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q603	8-729-112-65	s	TRANSISTOR 2SA1462
Q604	8-729-031-39	s	TRANSISTOR MTD20N03HDL
Q605	8-729-027-44	s	TRANSISTOR DTC114TKA-T146
Q701	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q702	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q703	8-729-112-65	s	TRANSISTOR 2SA1462
Q704	8-729-041-36	s	TRANSISTOR MTD20N06HDLT4
Q705	8-729-027-44	s	TRANSISTOR DTC114TKA-T146
Q801	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q802	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q803	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q804	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q805	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q900	8-729-024-45	s	TRANSISTOR 2SK2315TY
Q901	8-729-118-56	s	FET 2SK852-X2
Q902	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q904	8-729-027-38	s	TRANSISTOR DTA144EAK-T146
Q905	1-801-806-11	s	TRANSISTOR DTC144EAK
Q907	8-729-024-45	s	TRANSISTOR 2SK2315TY
Q921	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
R1	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R2	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R3	1-218-768-11	s	RESISTOR,CHIP 470K 1/10W(2012)
R4	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R5	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R6	1-216-695-11	s	RESISTOR,CHIP 68K 1/10W(2012)
R7	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R8	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R9	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R10	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R11	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R12	1-216-673-11	s	RESISTOR,CHIP 8.2K 1/10W(2012)
R14	1-216-695-11	s	RESISTOR,CHIP 68K 1/10W(2012)
R15	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R16	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R17	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R18	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R19	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R20	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R21	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R22	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R23	1-218-774-11	s	RESISTOR,CHIP 820K 1/10W(2012)
R24	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R25	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R26	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R27	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R28	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)

(RE-150 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R29	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R30	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R31	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R32	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R33	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R34	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R35	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R38	1-218-774-11	s	RESISTOR,CHIP 820K 1/10W(2012)
R39	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R40	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R41	1-218-770-11	s	RESISTOR,CHIP 560K 1/10W(2012)
R42	1-216-676-11	s	RESISTOR,CHIP 11K 1/10W(2012)
R43	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R44	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R45	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R46	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R47	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R49	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R50	1-218-768-11	s	RESISTOR,CHIP 470K 1/10W(2012)
R51	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R52	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R101	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R102	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R103	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R104	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R105	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R106	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R107	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R108	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R109	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R110	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R111	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R112	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R113	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R114	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R115	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R116	1-211-999-11	s	RESISTOR,METAL FILM CHIP 9.1K
R117	1-220-751-11	s	RESISTOR,METAL FILM CHIP 2.2K
R118	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)
R201	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R202	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R203	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R204	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R205	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R206	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R207	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R209	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R210	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R211	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R212	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R213	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R214	1-216-655-11	s	RESISTOR,CHIP 1.5K 1/10W(2012)
R215	1-216-638-11	s	RESISTOR,CHIP 300 1/10W (2012)
R216	1-211-996-11	s	RESISTOR,METAL FILM CHIP 1.5K
R217	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R218	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R301	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R302	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R303	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R304	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R305	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R306	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R307	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R308	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R309	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R310	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R311	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R313	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R314	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R315	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R316	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R317	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R318	1-211-997-11	s	RESISTOR,METAL FILM CHIP 3.0K
R319	1-216-631-11	s	RESISTOR,CHIP 150 1/10W (2012)
R351	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R352	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R353	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R354	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R355	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R356	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R357	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R358	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R359	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R360	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R361	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R362	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R363	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R364	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R365	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R366	1-219-716-11	s	RESISTOR,METAL CHIP 5.6K 1/16W
R368	1-211-997-11	s	RESISTOR,METAL FILM CHIP 3.0K
R369	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)
R401	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R402	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R403	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R404	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R405	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R406	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R407	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R408	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R409	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R410	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R411	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R412	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R413	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R414	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R415	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R416	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R417	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R418	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R501	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R502	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R503	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R504	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R505	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R506	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R507	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R508	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R509	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R511	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R512	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R513	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R514	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R515	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R516	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R517	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R518	1-216-641-11	s	RESISTOR,CHIP 390 1/10W(2012)
R519	1-211-997-11	s	RESISTOR,METAL FILM CHIP 3.0K
R551	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R552	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R553	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R554	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R555	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R556	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R557	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R558	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R559	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R560	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R561	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R562	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R563	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R564	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R565	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R566	1-218-367-11	s	RESISTOR,METAL FILM CHIP 10K
R567	1-211-997-11	s	RESISTOR,METAL FILM CHIP 3.0K
R568	1-216-641-11	s	RESISTOR,CHIP 390 1/10W(2012)
R601	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R602	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R603	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R604	1-216-619-11	s	RESISTOR,CHIP 47 1/10W(2012)
R605	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R606	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R607	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R608	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R609	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R610	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R611	1-216-689-11	s	RESISTOR,CHIP 39K 1/10W(2012)
R612	1-216-655-11	s	RESISTOR,CHIP 1.5K 1/10W(2012)
R613	1-218-760-11	s	RESISTOR,CHIP 220K 1/10W(2012)
R614	1-216-635-11	s	RESISTOR,CHIP 220 1/10W (2012)
R615	1-211-998-11	s	RESISTOR,METAL FILM CHIP 4.7K
R616	1-219-218-11	s	RESISTOR,METAL FILM CHIP 24K
R617	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R701	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R702	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R703	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R704	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R705	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R706	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R707	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R708	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R709	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R710	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R711	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R712	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R713	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R714	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP Description
R715	1-218-760-11	s RESISTOR,CHIP 220K 1/10W(2012)
R716	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R717	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R718	1-216-662-11	s RESISTOR,CHIP 3K 1/10W (2012)
R801	1-216-691-11	s RESISTOR,CHIP 47K 1/10W(2012)
R802	1-216-683-11	s RESISTOR,CHIP 22K 1/10W (2012)
R803	1-216-683-11	s RESISTOR,CHIP 22K 1/10W (2012)
R804	1-216-691-11	s RESISTOR,CHIP 47K 1/10W(2012)
R805	1-216-683-11	s RESISTOR,CHIP 22K 1/10W (2012)
R806	1-216-683-11	s RESISTOR,CHIP 22K 1/10W (2012)
R807	1-216-691-11	s RESISTOR,CHIP 47K 1/10W(2012)
R808	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R809	1-218-768-11	s RESISTOR,CHIP 470K 1/10W(2012)
R810	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R900	1-216-691-11	s RESISTOR,CHIP 47K 1/10W(2012)
R901	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R902	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R903	1-216-674-11	s RESISTOR,CHIP 9.1K 1/10W(2012)
R904	1-216-696-11	s RESISTOR,CHIP 75K 1/10W(2012)
R905	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R906	1-216-655-11	s RESISTOR,CHIP 1.5K 1/10W(2012)
R907	1-216-686-11	s RESISTOR,METAL FILM 30K 1/10W
R908	1-216-691-11	s RESISTOR,CHIP 47K 1/10W(2012)
R909	1-216-691-11	s RESISTOR,CHIP 47K 1/10W(2012)
R910	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R911	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R912	1 218 760 11	s RESISTOR,CHIP 220K 1/10W(2012)
R913	1-216-687-11	s RESISTOR,CHIP 33K 1/10W (2012)
R914	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R917	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R923	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R924	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R930	1-216-691-11	s RESISTOR,CHIP 47K 1/10W(2012)
R931	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)

RE-158 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-667-541-11	o PRINTED WIRING BOARD, RE-158
CB1	Δ 1-533-647-11	s BREAKER
CN1	1-566-095-11	s PIN,BOARD TO BOARD 11P



SDI-23 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8316-672-A	s	MOUNTED CIRCUIT BOARD, SDI-23
2pcs	3-603-737-01	o	LEVER,BOARD
5pcs	3-729-061-01	s	SCREW (M2X4.5) (TYPE 1) (STEEL)
C1	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C2	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C3	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C4	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C5	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C6	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C100	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C101	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C102	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C103	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C104	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C105	1-117-232-11	s	CAPACITOR, (SMD) 22MF/4V
C106	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C107	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C108	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C109	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C110	1-117-232-11	s	CAPACITOR, (SMD) 22MF/4V
C111	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C113	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C114	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C115	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C116	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C117	1 117 232 11	s	CAPACITOR, (SMD) 22MF/4V
C118	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C119	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C120	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C121	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C122	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C123	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C124	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C125	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C126	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C127	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C128	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C130	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C131	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C132	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C133	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C134	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C135	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C136	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C137	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C138	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C139	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C140	1-162-907-11	s	CAPACITOR,CERAMIC 2PF/50V(CK)
C141	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C142	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C143	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C144	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C145	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C146	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C147	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C200	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C202	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C207	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C208	1-115-467-11	s	CAPACITOR CERAMIC 0.22MF/10V B
C209	1-135-179-21	s	CAPACITOR,TANTALUM 2.2MF/16V
C210	1-115-467-11	s	CAPACITOR CERAMIC 0.22MF/10V B
C211	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C212	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C213	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C215	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C217	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C218	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C219	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C250	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C251	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C252	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C253	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C254	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C255	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C256	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C257	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C258	1 107 826 11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C259	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C260	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C261	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C262	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C263	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C264	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C300	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C303	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C304	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C305	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C306	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C307	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C308	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C350	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C351	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C352	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C353	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C354	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C355	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C356	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C357	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C358	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C359	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C360	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C361	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C362	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C363	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C364	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C365	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C400	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C812	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C813	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN62	1-695-453-11	s	CONNECTOR,BOARD TO BOARD 50P
CN100	1-764-243-11	o	CONNECTOR (COAXIAL)
CN101	1-764-243-11	o	CONNECTOR (COAXIAL)
CN700	1-764-243-11	o	CONNECTOR (COAXIAL)
CN701	1-764-243-11	o	CONNECTOR (COAXIAL)
D200	8-719-941-04	s	DIODE SB007-03CP
D201	8-719-941-04	s	DIODE SB007-03CP
D300	8-719-987-43	s	LED CL-150PG-CD
D301	8-719-987-43	s	LED CL-150PG-CD
D302	8-719-059-73	s	LED CL-150HR-CD-T
D303	8-719-059-73	s	LED CL-150HR-CD-T
D304	8-719-059-73	s	LED CL-150HR-CD-T
D305	8-719-059-73	s	LED CL-150HR-CD-T
D450	8-719-941-23	s	DIODE DA204U
D451	8-719-941-04	s	DIODE SB007-03CP
D452	8-719-941-04	s	DIODE SB007-03CP
D453	8-719-941-04	s	DIODE SB007-03CP
D800	8-719-987-43	s	LED CL-150PG-CD
D801	8-719-987-43	s	LED CL-150PG-CD
FB101	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB102	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB104	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB105	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB106	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB107	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB108	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB450	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB451	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB700	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB702	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB703	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB704	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB705	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB706	1-543-644-11	s	BEAD, FERRITE (CHIP)
FB707	1-543-644-11	s	BEAD, FERRITE (CHIP)
IC100	8-759-058-43	s	IC NJM3404AV
IC101	8-759-710-88	s	IC NJM431U
IC102	8-752-078-34	s	IC CXB1342R
IC103	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC104	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC200	8-759-523-78	s	IC TC74VHC00FT(EL)
IC201	8-759-082-57	s	IC TC7W04FU
IC202	8-759-524-04	s	IC TC74VHC125FT(EL)
IC203	8-759-523-94	s	IC TC74VHC32FT(EL)
IC204	8-759-523-95	s	IC TC74VHC74FT(EL)
IC205	8-759-172-72	s	IC CXD8386AQ
IC206	8-759-392-01	s	IC TC7SH86FU (TE85R)
IC207	8-759-271-86	s	IC TC7SH04FU
IC208	8-759-523-84	s	IC TC74VHC14FT(EL)
IC209	8-759-447-77	s	IC TC7WH74FU (TR12R)
IC210	8-759-524-50	s	IC TC74VHC541FT(EL)
IC211	8-759-524-50	s	IC TC74VHC541FT(EL)
IC212	8-759-524-50	s	IC TC74VHC541FT(EL)
IC250	8-759-289-69	s	IC CXD8280AQ
IC252	8-759-523-97	s	IC TC74VHC123AFT(EL)

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Ref. No. or Q'ty	Part No.	SP	Description
IC253	8-759-524-50	s	IC TC74VHC541FT(EL)
IC254	8-759-524-50	s	IC TC74VHC541FT(EL)
IC255	8-759-523-81	s	IC TC74VHC08FT(EL)
IC256	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC300	8-759-491-46	s	IC TC74VHCT04AFT(EL)
IC301	8-759-344-84	s	IC CXD8953Q
IC302	8-759-524-22	s	IC TC74VHC175FT(EL)
IC303	8-759-082-57	s	IC TC7W04FU
IC304	8-759-082-57	s	IC TC7W04FU
IC350	8-759-524-50	s	IC TC74VHC541FT(EL)
IC351	8-759-524-50	s	IC TC74VHC541FT(EL)
IC352	8-759-175-79	s	IC CXD8818R
IC353	8-759-477-86	s	IC UPD485506G5-25-7JF (E2)
IC354	8-759-477-86	s	IC UPD485506G5-25-7JF (E2)
IC356	8-759-524-50	s	IC TC74VHC541FT(EL)
IC400	8-752-360-90	s	IC CXD303-101Q
IC406	8-759-175-57	s	IC CXD8820AR
IC407	8-759-524-52	s	IC TC74VHC574FT(EL)
IC408	8-759-524-52	s	IC TC74VHC574FT(EL)
IC450	8-759-387-54	s	IC S-80727-SN-DQ-T1
IC451	8-759-391-30	s	IC 74LVX3245QSCX
IC452	8-759-277-63	s	IC TC7W14FU (TE12R)
IC453	8-759-082-58	s	IC TC7W08FU
IC454	8-759-082-57	s	IC TC7W04FU
IC455	8-759-582-53	s	IC UPD78014FGC-632-AB8
IC456	8-759-524-50	s	IC TC74VHC541FT(EL)
IC457	8-759-430-21	s	IC MSM6524GS KR1
IC500	8-759-524-27	s	IC TC74VHC244FT(EL)
IC501	8-759-391-30	s	IC 74LVX3245QSCX
IC502	8-759-524-50	s	IC TC74VHC541FT(EL)
IC503	8-759-519-12	s	IC CXD8281Q
IC550	8-759-472-67	s	IC 74VHCT574MTCX
IC551	8-759-472-67	s	IC 74VHCT574MTCX
IC552	8-759-172-73	s	IC CXD8385Q
IC553	8-759-447-77	s	IC TC7WH74FU (TR12R)
IC554	8-759-082-57	s	IC TC7W04FU
IC555	8-759-524-18	s	IC TC74VHC163FT(EL)
IC556	8-759-524-18	s	IC TC74VHC163FT(EL)
IC557	8-759-082-59	s	IC TC7W32FU
IC600	8-759-154-60	s	IC UPD71055GB-10-3B4
IC601	8-759-344-84	s	IC CXD8953Q
IC602	8-759-524-50	s	IC TC74VHC541FT(EL)
IC603	8-759-524-50	s	IC TC74VHC541FT(EL)
IC700	8-759-058-43	s	IC NJM3404AV
IC701	8-759-710-88	s	IC NJM431U
IC702	8-752-078-32	s	IC CXB1341R
IC800	8-759-524-28	s	IC TC74VHC245FT(EL)
IC801	8-759-524-50	s	IC TC74VHC541FT(EL)
IC802	8-759-391-30	s	IC 74LVX3245QSCX
IC803	8-759-271-86	s	IC TC7SH04FU
IC804	8-759-524-07	s	IC TC74VHC138FT(EL)
IC805	8-759-524-50	s	IC TC74VHC541FT(EL)
IC806	8-759-524-28	s	IC TC74VHC245FT(EL)
IC807	8-759-524-28	s	IC TC74VHC245FT(EL)
IC808	8-759-082-57	s	IC TC7W04FU
IC809	8-759-523-83	s	IC TC74VHC11FT(EL)
IC810	8-759-154-60	s	IC UPD71055GB-10-3B4
IC811	8-759-524-50	s	IC TC74VHC541FT(EL)
IC812	8-759-523-79	s	IC TC74VHC02FT

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Ref. No. or Q'ty	Part No.	SP Description
L1	1-406-864-21	s COIL,CHOKE 4.7UH
L2	1-406-864-21	s COIL,CHOKE 4.7UH
L3	1-406-864-21	s COIL,CHOKE 4.7UH
L100	1-410-797-11	s CHIP INDUCTOR 0.015UH (3225)
Q100	8-729-106-68	s TRANSISTOR 2SD1615A-GP
Q101	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q102	8-729-105-68	s TRANSISTOR 2SC3356-K
Q103	8-729-105-68	s TRANSISTOR 2SC3356-K
Q104	8-729-105-68	s TRANSISTOR 2SC3356-K
Q450	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q700	8-729-106-68	s TRANSISTOR 2SD1615A-GP
Q701	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q702	8-729-105-68	s TRANSISTOR 2SC3356-K
Q703	8-729-105-68	s TRANSISTOR 2SC3356-K
Q704	8-729-105-68	s TRANSISTOR 2SC3356-K
Q705	8-729-105-68	s TRANSISTOR 2SC3356-K
Q706	8-729-105-68	s TRANSISTOR 2SC3356-K
Q707	8-729-105-68	s TRANSISTOR 2SC3356-K
Q708	8-729-105-68	s TRANSISTOR 2SC3356-K
Q709	8-729-105-68	s TRANSISTOR 2SC3356-K
Q710	8-729-105-68	s TRANSISTOR 2SC3356-K
Q711	8-729-105-68	s TRANSISTOR 2SC3356-K
Q712	8-729-117-32	s TRANSISTOR 2SC4177
Q713	8-729-117-32	s TRANSISTOR 2SC4177
R100	1-218-711-11	s RESISTOR,METAL 6.2K 1/16W
R101	1-218-701-11	s RESISTOR,CHIP 2.4K 1/16W(1608)
R102	1 218 710 11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R103	1-218-678-11	s RESISTOR CHIP 270 1/16W (1608)
R104	1-220-259-11	s RESISTOR,CHIP 150 1/4W (3225)
R105	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R106	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R107	1-218-697-11	s RESISTOR,CHIP 1.6K 1/16W(1608)
R108	1-218-709-11	s RESISTOR,METAL 5.1K 1/16W
R109	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R110	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R111	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R112	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R113	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R114	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R115	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R117	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R118	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R119	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R120	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R121	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R122	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R123	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R124	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R126	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R127	1-218-665-11	s RESISTOR CHIP 75 1/16W (1608)
R128	1-218-644-11	s RESISTOR,METAL 10 1/16W
R129	1-218-644-11	s RESISTOR,METAL 10 1/16W
R130	1-218-644-11	s RESISTOR,METAL 10 1/16W
R131	1-218-644-11	s RESISTOR,METAL 10 1/16W
R133	1-218-678-11	s RESISTOR CHIP 270 1/16W (1608)
R134	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R135	1-218-678-11	s RESISTOR CHIP 270 1/16W (1608)
R136	1-216-612-11	s RESISTOR,CHIP 24 1/10W(2012)
R137	1-216-618-11	s RESISTOR,CHIP 43 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP Description
R138	1-216-623-11	s RESISTOR,CHIP 68 1/10W(2012)
R139	1-216-612-11	s RESISTOR,CHIP 24 1/10W(2012)
R140	1-216-649-11	s RESISTOR,CHIP 820 1/10W (2012)
R141	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R142	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R143	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R144	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R145	1-216-631-11	s RESISTOR,CHIP 150 1/10W (2012)
R146	1-216-623-11	s RESISTOR,CHIP 68 1/10W(2012)
R147	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R148	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R149	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R200	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R201	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R202	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R203	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R204	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R205	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R206	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R207	1-218-722-11	s RESISTOR,CHIP 18K 1/16W 1608
R208	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R209	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R210	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R211	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R212	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R215	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R216	1 216 864 11	s RESISTOR,CHIP 0 1/16W (1608)
R217	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R218	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R219	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R220	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R221	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R250	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R251	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R252	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R253	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R254	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R300	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R301	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R302	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R303	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R304	1-216-647-11	s RESISTOR,CHIP 680 1/10W (2012)
R305	1-216-647-11	s RESISTOR,CHIP 680 1/10W (2012)
R306	1-216-647-11	s RESISTOR,CHIP 680 1/10W (2012)
R307	1-216-647-11	s RESISTOR,CHIP 680 1/10W (2012)
R308	1-216-647-11	s RESISTOR,CHIP 680 1/10W (2012)
R309	1-216-647-11	s RESISTOR,CHIP 680 1/10W (2012)
R350	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R351	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R353	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R354	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R355	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R400	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R404	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R405	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R450	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R451	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R452	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R453	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R454	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R455	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R456	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R457	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R458	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R459	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R460	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R461	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R462	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R463	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R464	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R465	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R466	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R500	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R501	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R503	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R507	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R508	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R509	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R550	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R553	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R555	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R556	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R558	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R560	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R562	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R600	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R700	1-218-711-11	s	RESISTOR,METAL 6.2K 1/16W
R701	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R702	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R703	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R704	1-220-259-11	s	RESISTOR,CHIP 150 1/4W (3225)
R705	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R706	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R707	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R708	1-218-697-11	s	RESISTOR,CHIP 1.6K 1/16W(1608)
R709	1-218-709-11	s	RESISTOR,METAL 5.1K 1/16W
R710	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R711	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R712	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R713	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R714	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R715	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R716	1-218-718-11	s	RESISTOR CHIP 12K 1/16W (1608)
R718	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R719	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R720	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R721	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R722	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R723	1-218-696-11	s	RESISTOR CHIP 1.5K 1/16W(1608)
R725	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R726	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R727	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R728	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R729	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R730	1-216-610-11	s	RESISTOR,CHIP 20 1/10W(2012)
R731	1-216-618-11	s	RESISTOR,CHIP 43 1/10W(2012)
R732	1-218-678-11	s	RESISTOR CHIP 270 1/16W (1608)
R733	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R734	1-218-674-11	s	RESISTOR CHIP 180 1/16W (1608)
R735	1-216-612-11	s	RESISTOR,CHIP 24 1/10W(2012)
R736	1-216-618-11	s	RESISTOR,CHIP 43 1/10W(2012)
R737	1-216-619-11	s	RESISTOR CHIP 47 1/10W(2012)
R738	1-216-613-11	s	RESISTOR,CHIP 27 1/10W(2012)
R739	1-216-613-11	s	RESISTOR,CHIP 27 1/10W(2012)
R740	1-218-711-11	s	RESISTOR,METAL 6.2K 1/16W
R741	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R742	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R743	1-216-612-11	s	RESISTOR,CHIP 24 1/10W(2012)
R744	1-216-649-11	s	RESISTOR,CHIP 820 1/10W (2012)
R745	1-216-619-11	s	RESISTOR CHIP 47 1/10W(2012)
R746	1-216-613-11	s	RESISTOR,CHIP 27 1/10W(2012)
R747	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R748	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R749	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R750	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R751	1-216-631-11	s	RESISTOR,CHIP 150 1/10W (2012)
R752	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R753	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R754	1-216-631-11	s	RESISTOR,CHIP 150 1/10W (2012)
R755	1-216-295-91	s	RESISTOR,CHIP 0 (1/10W)
R756	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R757	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R758	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R759	1-216-623-11	s	RESISTOR,CHIP 68 1/10W(2012)
R760	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R800	1-216-647-11	s	RESISTOR,CHIP 680 1/10W (2012)
R801	1-216-647-11	s	RESISTOR,CHIP 680 1/10W (2012)
RB100	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB101	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB102	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB250	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB251	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB252	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB300	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB301	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB350	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB351	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB352	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB353	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB354	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB400	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB401	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB402	1 239 412 11	s	NETWORK, RESISTOR 100 (1608)
RB403	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB450	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB451	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB452	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB453	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB454	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)
RB500	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB501	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB550	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB551	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB600	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB601	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB602	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB700	1-239-412-11	s	NETWORK, RESISTOR 100 (1608)

(SDI-23 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RB701	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB702	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB800	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB801	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB802	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB803	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB804	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB805	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB806	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB807	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB808	1-233-936-11	s NETWORK RESISTOR 10 (1608)
RB809	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB810	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB811	1-239-309-11	s RESISTOR ARRAY,CHIP 100K
RB812	1-236-907-11	s RESISTOR BLOCK 100K (1608)

SE-529 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-972-A	o MOUNTED CIRCUIT BOARD, SE-529
C1	1-163-011-11	s CAPACITOR,CHIP CERAMIC 1500PF
C2	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C4	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C5	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C6	1-107-417-11	s CAPACITOR ERECT 33MF/25V(105C)
C7	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C8	1-163-011-11	s CAPACITOR,CHIP CERAMIC 1500PF
C9	1-163-017-00	s CAPACITOR,CHIP CERAMIC 4700PF
C10	1-107-417-11	s CAPACITOR ERECT 33MF/25V(105C)
C11	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
C12	1-164-004-11	s CAPACITOR,CERAMIC 0.1MF/25V
CN1	1-580-756-21	o PIN, CONNECTOR 7P
CN2	1-580-055-21	o PIN, CONNECTOR 2P
D1	8-719-106-53	s DIODE RD10M-B2
D2	8-719-105-91	s DIODE RD5.6M-B2
D3	8-719-066-98	s DIODE RB051L-40
IC1	8-759-594-94	s IC BA6286
IC2	8-759-521-35	s IC TL5001CD
IC3	8-759-257-96	s IC TC7S14FU (TE85R)
L1	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L2	1-414-392-21	s INDUCTOR (SMD) 1.0UH
L3	1-424-642-11	s COIL, CHOKE 47UH
PH1	8-749-010-00	s PHOTO INTERRUPTER CP1S33
PH2	8-749-010-00	s PHOTO INTERRUPTER GP1S33
PH3	8-749-010-00	s PHOTO INTERRUPTER GP1S33
Q1	8-729-109-44	s TRANSISTOR 2SK94
Q2	8-729-117-32	s TRANSISTOR 2SC4177
Q3	8-729-117-32	s TRANSISTOR 2SC4177
Q4	8-729-117-32	s TRANSISTOR 2SC4177
Q5	8-729-117-32	s TRANSISTOR 2SC4177
Q6	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q8	8-729-024-91	s TRANSISTOR 2SC2712-GL-TE85L
Q9	8-729-117-32	s TRANSISTOR 2SC4177
Q10	8-729-117-32	s TRANSISTOR 2SC4177
Q11	8-729-036-15	s TRANSISTOR SI6542DQ-TL
R1	1-220-228-11	s RESISTOR CHIP 1.5 1/4W (3225)
R2	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R3	1-218-764-11	s RESISTOR,CHIP 330K 1/10W(2012)
R4	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R5	1-216-691-11	s RESISTOR CHIP 47K 1/10W(2012)
R6	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R8	1-216-679-11	s RESISTOR CHIP 15K 1/10W (2012)
R9	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R10	1-216-699-11	s RESISTOR,CHIP 100K 1/10W(2012)
R11	1-216-679-11	s RESISTOR CHIP 15K 1/10W (2012)
R12	1-216-619-11	s RESISTOR CHIP 47 1/10W(2012)
R13	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R14	1-216-663-11	s RESISTOR,CHIP 3.3K 1/10W(2012)
R15	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R16	1-216-687-11	s RESISTOR CHIP 33K 1/10W (2012)
R17	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R18	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R19	1-216-687-11	s RESISTOR CHIP 33K 1/10W (2012)
R20	1-216-687-11	s RESISTOR CHIP 33K 1/10W (2012)
R21	1-218-764-11	s RESISTOR,CHIP 330K 1/10W(2012)

(SE-529 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R22	1-218-764-11 s	RESISTOR,CHIP 330K 1/10W(2012)
R23	1-216-651-11 s	RESISTOR,CHIP 1K 1/10W(2012)
R24	1-216-651-11 s	RESISTOR,CHIP 1K 1/10W(2012)

SR-65 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-674-A o	MOUNTED CIRCUIT BOARD, SR-65
C1	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C2	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
C3	1-104-851-11 s	CAPACITOR,TANTALUM 10MF/10V
CN1	1-573-290-21 s	PIN,CONNECTOR (4P) (SMD) (1.5MM)
IC1	8-719-821-03 s	DIODE THS117
IC2	8-759-440-71 s	IC NJM2119M (TE1)
R1	1-218-690-11 s	RESISTOR CHIP 820 1/16W (1608)
R3	1-218-712-11 s	RESISTOR,METAL 6.8K 1/16W
R5	1-218-712-11 s	RESISTOR,METAL 6.8K 1/16W
R6	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R7	1-218-724-11 s	RESISTOR,CHIP 22K 1/16W(1608)
R8	1-218-700-11 s	RESISTOR,CHIP 2.2K 1/16W(1608)
R9	1-218-748-11 s	RESISTOR,CHIP 220K 1/16W(1608)
R10	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
RV1	1-237-038-11 s	RESISTOR,ADJ,CERMET 50K
RV2	1-237-037-11 s	RESISTOR,ADJ,CERMET 20K

SV-194A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8323-004-A	o MOUNTED CIRCUIT BOARD, SV-194A
1pc	A-8278-854-A	o SWITCH ASSY,REC INHI (See the Exploded View.)
1pc	A-8278-724-A	o HOLDER ASSY SENSOR(ID) (See the Exploded View.)
1pc	3-612-820-03	o HOLDER,SV SENSOR
1pc	3-612-505-02	o SHEET,SV
C1	1-126-397-11	s CAPACITOR ELECT 33MF/25V(CHIP)
C2	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C3	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C4	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C5	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C6	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C7	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C8	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C9	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C10	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C11	1-104-609-11	s CAPACITOR,ELECT 100MF/4V CHIP
C14	1-126-397-11	s CAPACITOR ELECT 33MF/25V(CHIP)
C17	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C100	1-126-401-11	s CAPACITOR,ELECT 1MF/50V(CHIP)
C101	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C102	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C103	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C104	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C105	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C106	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C107	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C108	1-162-913-11	s CAPACITOR,CHIP CERAMIC 8PF/50V
C109	1-162-913-11	s CAPACITOR,CHIP CERAMIC 8PF/50V
C110	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C111	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C113	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C114	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C115	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C116	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C117	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C118	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C119	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C120	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C121	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C122	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C123	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C124	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C125	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C126	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C127	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C128	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C129	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C200	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C201	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C202	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C203	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C204	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C205	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C207	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C208	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B

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Ref. No. or Q'ty	Part No.	SP Description
C210	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C211	1-162-964-11	s CAPACITOR,CERAMIC 1000PF/50V B
C212	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C213	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-162-968-11	s CAPACITOR,CERAMIC 4700PF/50V B
C215	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C216	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C217	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C218	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C219	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C220	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C221	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C223	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C224	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C226	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C227	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C230	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C231	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C232	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C235	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C236	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C300	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C303	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C304	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C305	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C306	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C307	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C308	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C309	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C400	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C401	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C402	1-125-565-11	s CAPACITOR,DOUBLE LAYERS 5.5V
C403	1-115-419-11	s CAPACITOR,CHIP CERAMIC3300PF
C404	1-115-419-11	s CAPACITOR,CHIP CERAMIC3300PF
C405	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C406	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C407	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C408	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V
C409	1-164-230-11	s CAPACITOR,CERAMIC 220PF/50V
C410	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C411	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C412	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C413	1-107-854-11	s CAPACITOR TANTALUM 68MF/6.3V
C414	1-107-854-11	s CAPACITOR TANTALUM 68MF/6.3V
C415	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C416	1-164-245-11	s CAPACITOR,CERAMIC 0.015MF/25V
C417	1-126-396-11	s CAPACITOR ELECT 47MF/16V(CHIP)
C418	1-115-670-11	s CAPACITOR ELECT 220MF/35V(CHIP)
C419	1-126-399-11	s CAPACITOR ELECT 10MF/35V(CHIP)
C420	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C421	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C422	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C423	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C424	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C425	1-164-227-11	s CAPACITOR,CERAMIC 0.022MF/25V
C500	1-126-394-11	s CAPACITOR ELECT 10MF/16V(CHIP)
C501	1-165-176-11	s CAPACITOR,CERAMIC 47000PF/16V

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Ref. No. or Q'ty	Part No.	SP	Description
C502	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C503	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C504	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C505	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C506	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C507	1-104-559-11	s	CAPACITOR FILM 0.047MF/16V
C508	1-115-419-11	s	CAPACITOR, CHIP CERAMIC 3300PF
C509	1-165-176-11	s	CAPACITOR, CERAMIC 47000PF/16V
C510	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C511	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C512	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C513	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C514	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C515	1-104-559-11	s	CAPACITOR FILM 0.047MF/16V
C516	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C517	1-115-419-11	s	CAPACITOR, CHIP CERAMIC 3300PF
C518	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C519	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C520	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C521	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C522	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C523	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C524	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C525	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C526	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C527	1-162-965-11	s	CAPACITOR, CERAMIC 1500PF/50V B
C528	1 162 965 11	s	CAPACITOR, CERAMIC 1500PF/50V B
C600	1-164-739-11	s	CAPACITOR CERAMIC 560PF (1608)
C601	1-162-967-11	s	CAPACITOR, CERAMIC 3300PF/50V B
C602	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C603	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C604	1-162-965-11	s	CAPACITOR, CERAMIC 1500PF/50V B
C605	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C606	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C607	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C608	1-162-928-11	s	CAPACITOR, CERAMIC 120PF/50V CH
C609	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C610	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C611	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C612	1-162-968-11	s	CAPACITOR, CERAMIC 4700PF/50V B
C613	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C614	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C615	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C616	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C617	1-162-967-11	s	CAPACITOR, CERAMIC 3300PF/50V B
C618	1-164-739-11	s	CAPACITOR CERAMIC 560PF (1608)
C619	1-162-964-11	s	CAPACITOR, CERAMIC 1000PF/50V B
C620	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C622	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C623	1-162-928-11	s	CAPACITOR, CERAMIC 120PF/50V CH
C624	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C625	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C626	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C627	1-162-968-11	s	CAPACITOR, CERAMIC 4700PF/50V B
C628	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C630	1-115-467-11	s	CAPACITOR CERAMIC 0.22MF/10V B
C631	1-126-399-11	s	CAPACITOR ELECT 10MF/35V (CHIP)
C632	1-115-467-11	s	CAPACITOR CERAMIC 0.22MF/10V B
C633	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF

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C634	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C635	1-115-467-11	s	CAPACITOR CERAMIC 0.22MF/10V B
C636	1-115-467-11	s	CAPACITOR CERAMIC 0.22MF/10V B
C637	1-126-399-11	s	CAPACITOR ELECT 10MF/35V (CHIP)
C638	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C639	1-162-927-11	s	CAPACITOR, CERAMIC 100PF/50V CH
C640	1-165-176-11	s	CAPACITOR, CERAMIC 47000PF/16V
C641	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C700	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C701	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C702	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C703	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C704	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C705	1-104-559-11	s	CAPACITOR FILM 0.047MF/16V
C706	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C707	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C710	1-162-923-11	s	CAPACITOR, CERAMIC 47PF/50V CH
C711	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C712	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C713	1-162-928-11	s	CAPACITOR, CERAMIC 120PF/50V CH
C714	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C715	1-162-965-11	s	CAPACITOR, CERAMIC 1500PF/50V B
C716	1-162-958-11	s	CAPACITOR, CERAMIC 270PF/50V SL
C717	1-135-072-21	s	CAPACITOR, TANTALUM 0.22MF/35V
C718	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C719	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C720	1 162 969 11	s	CAPACITOR, CERAMIC 6800PF/25V B
C721	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C722	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C723	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C724	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C725	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C726	1-162-968-11	s	CAPACITOR, CERAMIC 4700PF/50V B
C727	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C728	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C729	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C730	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C731	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C732	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C733	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C734	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C735	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C736	1-104-851-11	s	CAPACITOR, TANTALUM 10MF/10V
C737	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C900	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C901	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C902	1-104-557-11	s	CAPACITOR, CHIP FILM 0.0033MF
C903	1-104-847-11	s	CAPACITOR TANTALUM 22MF/4V
C904	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C905	1-104-847-11	s	CAPACITOR TANTALUM 22MF/4V
C906	1-135-259-11	s	CAPACITOR TANTALUM 10MF/6.3VF
C907	1-164-230-11	s	CAPACITOR, CERAMIC 220PF/50V
C909	1-164-218-11	s	CAPACITOR, CERAMIC 180PF/50V CH
C950	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C951	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C952	1-162-968-11	s	CAPACITOR, CERAMIC 4700PF/50V B
C953	1-162-968-11	s	CAPACITOR, CERAMIC 4700PF/50V B
C954	1-126-395-11	s	CAPACITOR ELECT 22MF/16V (CHIP)
C955	1-109-898-11	s	CAPACITOR, CHIP CERAMIC 18000PF

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C956	1-109-897-11	s	CAPACITOR,CHIP CERAMIC 0.015MF
C957	1-126-394-11	s	CAPACITOR ELECT 10MF/16V(CHIP)
C958	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C959	1-162-968-11	s	CAPACITOR,CERAMIC 4700PF/50V B
C960	1-162-968-11	s	CAPACITOR,CERAMIC 4700PF/50V B
C961	1-126-395-11	s	CAPACITOR ELECT 22MF/16V(CHIP)
C962	1-109-898-11	s	CAPACITOR,CHIP CERAMIC 18000PF
C963	1-109-897-11	s	CAPACITOR,CHIP CERAMIC 0.015MF
C964	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C965	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C966	1-162-968-11	s	CAPACITOR,CERAMIC 4700PF/50V B
C967	1-162-968-11	s	CAPACITOR,CERAMIC 4700PF/50V B
CN1	1-764-177-11	o	PIN, CONNECTOR (7P) (SMD) 1.5MM
CN101	1-691-591-11	o	PIN, CONNECTOR (8P) (SMD) 1.5MM
CN102	1-569-775-21	o	PIN, CONNECTOR 5P
CN201	1-760-388-11	o	CONNECTOR PIN (SMD)
CN202	1-691-551-11	o	PIN,CONNECTOR (SMD) (L TYPE)
CN301	1-764-441-21	s	CONNECTOR, FPC (30P)
CN302	1-764-441-21	s	CONNECTOR, FPC (30P)
CN303	1-764-441-21	s	CONNECTOR, FPC (30P)
CN304	1-695-209-21	s	PIN, CONNECTOR (PC BOARD) 15P
CN305	1-580-756-21	o	PIN, CONNECTOR 7P
CN401	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD) 1.5MM
CN601	1-573-768-21	o	PIN, CONNECTOR (5P) (SMD) 1.5MM
CN602	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD) 1.5MM
CN701	1-695-320-21	s	PIN, CONNECTOR (1.5MM) SMD 2P
CN702	1 695 320 21	s	PIN, CONNECTOR (1.5MM) SMD 2P
CN703	1-695-320-21	s	PIN, CONNECTOR (1.5MM) SMD 2P
CN704	1-695-320-21	s	PIN, CONNECTOR (1.5MM) SMD 2P
CN705	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD) (1.5MM)
CN706	1-506-468-11	s	PIN, CONNECTOR 3P
CN801	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD) 1.5MM
CN901	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD) 1.5MM
D100	8-719-820-41	s	DIODE 1SS302
D101	8-719-820-41	s	DIODE 1SS302
D102	8-719-820-41	s	DIODE 1SS302
D103	8-719-938-72	s	DIODE SB01-05CP (RECTI)
D104	8-719-938-72	s	DIODE SB01-05CP (RECTI)
D106	8-719-820-41	s	DIODE 1SS302
D107	8-719-987-43	s	LED CL-150PG-CD
D108	8-719-987-41	s	LED CL-150Y-CD
D109	8-719-987-41	s	LED CL-150Y-CD
D200	8-719-024-81	s	DIODE 1SS300-TE85L
D201	8-719-987-43	s	LED CL-150PG-CD
D400	8-719-974-51	s	DIODE SB20-03P
D401	8-719-404-35	s	DIODE MA141WK
D402	8-719-404-35	s	DIODE MA141WK
D403	8-719-404-35	s	DIODE MA141WK
D404	8-719-106-53	s	DIODE RD10M-B2
D500	8-719-404-35	s	DIODE MA141WK
D501	8-719-404-35	s	DIODE MA141WK
D502	8-719-404-35	s	DIODE MA141WK
D503	8-719-404-35	s	DIODE MA141WK
D600	8-719-106-53	s	DIODE RD10M-B2
D601	8-719-048-17	s	DIODE MBR5130LT3
D602	8-719-048-17	s	DIODE MBR5130LT3
D603	8-719-106-88	s	DIODE RD15M-B1
D605	8-719-048-17	s	DIODE MBR5130LT3

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D606	8-719-048-17	s	DIODE MBR5130LT3
D607	8-719-157-42	s	DIODE RD8.2M-B
D608	8-719-404-35	s	DIODE MA141WK
D609	8-719-404-35	s	DIODE MA141WK
D610	8-719-105-91	s	DIODE RD5.6M-B2
D611	8-719-404-35	s	DIODE MA141WK
D612	8-719-404-35	s	DIODE MA141WK
D613	8-719-820-41	s	DIODE 1SS302
D700	8-719-404-35	s	DIODE MA141WK
D702	8-719-048-17	s	DIODE MBR5130LT3
D950	8-719-820-41	s	DIODE 1SS302
D951	8-719-820-41	s	DIODE 1SS302
D952	8-719-820-41	s	DIODE 1SS302
D953	8-719-820-41	s	DIODE 1SS302
IC1	8-759-196-96	s	IC TC7SH08FU (TE85R)
IC100	8-759-530-05	s	IC TC4053BFT (EL.N)
IC101	8-759-337-40	s	IC NJM2904V (TE2)
IC102	8-759-523-00	s	IC TC74HC4051AFT (EL)
IC103	8-759-348-69	s	IC HD6415108RF10
IC104	8-759-081-48	s	IC TC74VHC08F
IC105	8-759-081-42	s	IC TC74VHC00F
IC106	8-759-530-05	s	IC TC4053BFT (EL.N)
IC107	8-759-545-80	s	IC LC3564BM-70-TLM
IC108	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC109	8-759-524-08	s	IC TC74VHC139FT (EL)
IC110	8-759-186-38	s	IC TC74VHC32F
IC111	8 759 545 80	s	IC LC3564BM 70 TLM
IC112	8-759-186-38	s	IC TC74VHC32F
IC113	8-759-523-78	s	IC TC74VHC00FT (EL)
IC114	8-759-645-42	s	IC SV194-IC114-SV-V3.20
IC115	8-759-523-81	s	IC TC74VHC08FT (EL)
IC116	8-752-381-84	s	IC CXD1095BQ
IC200	8-759-338-95	s	IC NJM2903V (TE2)
IC201	8-759-523-00	s	IC TC74HC4051AFT (EL)
IC202	8-759-523-96	s	IC TC74VHC86FT (EL)
IC203	8-759-530-05	s	IC TC4053BFT (EL.N)
IC204	8-759-009-51	s	IC MC14538BF
IC205	8-759-926-37	s	IC SN74HC193ANS
IC206	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC207	8-759-271-86	s	IC TC7SH04FU
IC209	8-752-343-05	s	IC CXD2202Q
IC210	8-759-523-95	s	IC TC74VHC74FT (EL)
IC212	8-752-897-72	o	IC CXP80P624AQ-1-010
IC213	8-759-174-16	s	IC TC74VHC244F
IC215	8-759-523-78	s	IC TC74VHC00FT (EL)
IC216	8-759-269-65	s	IC SN74HCT245ANS (E20)
IC300	8-759-973-43	s	IC MB8421-90LPFQ
IC301	8-759-391-30	s	IC 74LVX3245QSCX
IC302	8-759-391-30	s	IC 74LVX3245QSCX
IC303	8-759-391-30	s	IC 74LVX3245QSCX
IC304	8-752-381-84	s	IC CXD1095BQ
IC305	8-759-269-65	s	IC SN74HCT245ANS (E20)
IC306	8-759-523-84	s	IC TC74VHC14FT (EL)
IC400	8-759-338-95	s	IC NJM2903V (TE2)
IC401	8-759-463-91	s	IC UPD75106GF-J20-3BE
IC402	8-759-543-17	s	IC S-80833ALUP-EAX-T2
IC403	8-759-464-95	s	IC AK6420AF-E2
IC404	8-759-530-05	s	IC TC4053BFT (EL.N)
IC405	8-759-805-32	s	IC LA7205M

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Ref. No. or Q'ty	Part No.	SP	Description
IC407	8-759-710-77	s	IC NJM4560MD
IC408	8-759-710-77	s	IC NJM4560MD
IC409	8-743-914-00	s	IC BX-3914 (HYBRID)
IC411	8-759-530-05	s	IC TC4053BFT (EL.N)
IC412	8-759-523-78	s	IC TC74VHC00FT(EL)
IC500	8-759-635-27	s	IC M62352GP
IC501	8-759-337-40	s	IC NJM2904V (TE2)
IC502	8-759-337-41	s	IC NJM2902V (TE2)
IC503	8-759-338-95	s	IC NJM2903V (TE2)
IC504	8-759-338-95	s	IC NJM2903V (TE2)
IC505	8-759-338-95	s	IC NJM2903V (TE2)
IC600	8-759-388-63	s	IC NJU7064V (TE2)
IC601	8-759-338-95	s	IC NJM2903V (TE2)
IC602	8-759-276-89	s	IC BA6285FP (E2)
IC603	8-759-388-63	s	IC NJU7064V (TE2)
IC604	8-759-338-95	s	IC NJM2903V (TE2)
IC605	8-759-009-51	s	IC MC14538BF
IC606	8-759-337-40	s	IC NJM2904V (TE2)
IC700	8-759-440-71	s	IC NJM2119M (TE1)
IC701	8-759-388-63	s	IC NJU7064V (TE2)
IC702	8-759-388-62	s	IC NJU7062M (TE2)
IC703	8-759-530-05	s	IC TC4053BFT (EL.N)
IC704	8-759-338-95	s	IC NJM2903V (TE2)
IC705	8-759-388-62	s	IC NJU7062M (TE2)
IC706	8-759-710-77	s	IC NJM4560MD
IC707	8-759-530-05	s	IC TC4053BFT (EL.N)
IC708	8-759-388-62	s	IC NJU7062M (TE2)
IC709	8-759-082-61	s	IC TC4W53FU
IC710	8-759-440-71	s	IC NJM2119M (TE1)
IC711	8-759-082-61	s	IC TC4W53FU
IC712	8-759-489-87	s	IC BA6444FP
IC900	8-759-195-81	s	IC TC7S86FU
IC901	8-759-530-05	s	IC TC4053BFT (EL.N)
IC902	8-759-710-28	s	IC NJM4565M-A
IC903	8-759-338-95	s	IC NJM2903V (TE2)
IC904	8-759-082-61	s	IC TC4W53FU
L1	1-409-579-11	s	COIL, CHOKE 8.2UH
L2	1-409-579-11	s	COIL, CHOKE 8.2UH
L3	1-409-579-11	s	COIL, CHOKE 8.2UH
L4	1-409-579-11	s	COIL, CHOKE 8.2UH
L5	1-409-579-11	s	COIL, CHOKE 8.2UH
L400	1-410-393-11	s	CHIP INDUCTOR 100UH (3225)
L401	1-410-393-11	s	CHIP INDUCTOR 100UH (3225)
L500	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L501	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L600	1-409-579-11	s	COIL, CHOKE 8.2UH
L601	1-416-617-11	s	COIL, CHOKE 100UH
L602	1-411-755-11	s	COIL, CHOKE 47UH
L603	1-411-755-11	s	COIL, CHOKE 47UH
L604	1-410-381-11	s	CHIP INDUCTOR 10UH (3225)
L605	1-409-579-11	s	COIL, CHOKE 8.2UH
L606	1-409-722-11	s	COIL, CHOKE 220UH
L700	1-409-579-11	s	COIL, CHOKE 8.2UH
L701	1-409-722-11	s	COIL, CHOKE 220UH
L950	1-411-755-11	s	COIL, CHOKE 47UH
L951	1-411-755-11	s	COIL, CHOKE 47UH
LV950	1-414-007-11	s	COIL, VARIABLE

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Ref. No. or Q'ty	Part No.	SP	Description
M3	3-611-385-01	o	PIN, DETECTION
M4	3-611-405-01	o	SPRING, COMPRESSION
M4	4-963-480-01	s	SPRING (DOOR), COMPRESSION
PH300	8-749-010-00	s	PHOTO INTERRUPTER GP1S33
PH301	8-719-988-15	s	PHOTO REFLECTOR PR-11-C
PH302	8-719-988-15	s	PHOTO REFLECTOR PR-11-C
PH303	8-719-988-15	s	PHOTO REFLECTOR PR-11-C
PH304	8-719-988-15	s	PHOTO REFLECTOR PR-11-C
PH500	8-719-939-23	s	PHOTO SENSOR GP2S09C
PH501	8-719-939-23	s	PHOTO SENSOR GP2S09C
Q1	8-729-040-75	s	TRANSISTOR SI4953DY
Q2	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q300	8-729-117-32	s	TRANSISTOR 2SC4177
Q301	8-729-117-32	s	TRANSISTOR 2SC4177
Q302	8-729-117-32	s	TRANSISTOR 2SC4177
Q303	8-729-117-32	s	TRANSISTOR 2SC4177
Q304	8-729-117-32	s	TRANSISTOR 2SC4177
Q400	8-729-117-32	s	TRANSISTOR 2SC4177
Q401	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q402	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q403	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q404	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q405	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q406	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q407	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q500	8-729-117-32	s	TRANSISTOR 2SC4177
Q501	8-729-117-32	s	TRANSISTOR 2SC4177
Q600	8-729-040-75	s	TRANSISTOR SI4953DY
Q601	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q602	8-729-117-32	s	TRANSISTOR 2SC4177
Q603	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q604	8-729-117-32	s	TRANSISTOR 2SC4177
Q605	8-729-109-44	s	TRANSISTOR 2SK94
Q606	8-729-117-32	s	TRANSISTOR 2SC4177
Q607	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q608	8-729-120-22	s	TRANSISTOR 2SD1614-T1XK
Q609	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q610	8-729-117-32	s	TRANSISTOR 2SC4177
Q611	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q612	8-729-040-75	s	TRANSISTOR SI4953DY
Q613	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q614	8-729-109-44	s	TRANSISTOR 2SK94
Q615	8-729-024-45	s	TRANSISTOR 2SK2315TY
Q616	8-729-120-22	s	TRANSISTOR 2SD1614-T1XK
Q617	8-729-117-32	s	TRANSISTOR 2SC4177
Q618	8-729-117-32	s	TRANSISTOR 2SC4177
Q619	8-729-024-50	s	TRANSISTOR SI9936DY
Q621	8-729-043-74	s	TRANSISTOR SI4435DY-T1-REVA
Q622	8-729-117-32	s	TRANSISTOR 2SC4177
Q700	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q701	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q702	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q703	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q704	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q705	8-729-117-32	s	TRANSISTOR 2SC4177
Q706	8-729-117-32	s	TRANSISTOR 2SC4177
Q707	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q708	8-729-040-75	s	TRANSISTOR SI4953DY

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Ref. No. or Q'ty	Part No.	SP	Description
Q709	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q710	8-729-120-22	s	TRANSISTOR 2SD1614-T1XK
Q711	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q712	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q900	8-729-117-32	s	TRANSISTOR 2SC4177
Q901	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q950	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q951	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q952	8-729-824-34	s	TRANSISTOR 2SJ187
Q953	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q954	8-729-013-37	s	TRANSISTOR 2SC4213-AB-TE85L
Q955	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q956	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q957	8-729-824-34	s	TRANSISTOR 2SJ187
Q958	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q959	8-729-141-75	s	TRANSISTOR 2SD596DV345
R1	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R4	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R5	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R6	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R7	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R8	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R10	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R11	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R12	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R13	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R14	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R15	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R16	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R17	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R18	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R100	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R101	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R102	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R103	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R104	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R105	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R106	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R107	1-218-752-11	s	RESISTOR,CHIP 330K 1/16W(1608)
R108	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R109	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R110	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R111	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R112	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R113	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R114	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R115	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R116	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R117	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R118	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R119	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R120	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R121	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R122	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R123	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R124	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R125	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R126	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R127	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R130	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R131	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R132	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R133	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R134	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R135	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R136	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R137	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R138	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R139	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R140	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R141	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R142	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R143	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R144	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R145	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R146	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R147	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R148	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R149	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R150	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R151	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R153	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R154	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R156	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R157	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R200	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R201	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R202	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R203	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R204	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R205	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R206	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R207	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R208	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R209	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R210	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R211	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R212	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R213	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R214	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R215	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R216	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R217	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R218	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R219	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R220	1-218-752-11	s	RESISTOR,CHIP 330K 1/16W(1608)
R221	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R222	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R223	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R224	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R225	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R226	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R227	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R228	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R229	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R230	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R231	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R232	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R233	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R234	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R235	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R236	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R237	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R239	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R256	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R257	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R258	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R259	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R260	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R261	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R262	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R263	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R264	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R265	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R266	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R267	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R268	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R269	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R270	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R271	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R272	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R273	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R274	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R275	1 218 716 11	s	RESISTOR,CHIP 10K 1/16W(1608)
R276	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R277	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R279	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R300	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R301	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R302	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R303	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R304	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R305	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R306	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R307	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R308	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R309	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R310	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R311	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R312	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R313	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R314	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R315	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R316	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R317	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R318	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R319	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R320	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R321	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R322	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R323	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R324	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R325	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R326	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R327	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R328	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R329	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R330	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R331	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R332	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R333	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R334	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R335	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R336	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R337	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R338	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R339	1-218-752-11	s	RESISTOR,CHIP 330K 1/16W(1608)
R340	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R341	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R342	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R343	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R344	1-218-748-11	s	RESISTOR,CHIP 220K 1/16W(1608)
R345	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R346	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R347	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R348	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R349	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R350	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R351	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R352	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R353	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R354	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R400	1 218 708 11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R401	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R402	1-218-690-11	s	RESISTOR CHIP 820 1/16W (1608)
R403	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R404	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R405	1-218-744-11	s	RESISTOR,METAL 150K 1/16
R406	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R407	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R408	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R409	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R410	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R413	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R414	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R415	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R416	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R417	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R418	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R419	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R421	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R422	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R423	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R424	1-218-687-11	s	RESISTOR CHIP 620 1/16W (1608)
R425	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R426	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R427	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R428	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R429	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R430	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R431	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R432	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R433	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R434	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R435	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R436	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R437	1-218-693-11	s RESISTOR,CHIP 1.1K 1/16W(1608)
R438	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R439	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R440	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R441	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R442	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R443	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R444	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R445	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R446	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R447	1-216-863-11	s RESISTOR,CHIP 3.3M 1/16W 1608
R448	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R449	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R450	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R451	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R452	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R500	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R502	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R503	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R504	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R505	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R506	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R507	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R508	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R509	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R510	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R511	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R512	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R513	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R514	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R515	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R517	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R518	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R519	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R520	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R521	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R522	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R523	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R524	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R525	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R526	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R527	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R528	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R529	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R530	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R531	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R532	1-218-710-11	s RESISTOR,CHIP 5.6K 1/16W(1608)
R533	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R534	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R535	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R536	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R537	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R538	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R539	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R540	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R541	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R542	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R543	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R544	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R545	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R546	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R547	1-218-707-11	s RESISTOR,CHIP 4.3K 1/16W(1608)
R548	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R549	1-218-689-11	s RESISTOR CHIP 750 1/16W (1608)
R551	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R552	1-218-752-11	s RESISTOR,CHIP 330K 1/16W(1608)
R554	1-218-752-11	s RESISTOR,CHIP 330K 1/16W(1608)
R556	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R557	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R558	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R559	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R560	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R561	1-218-707-11	s RESISTOR,CHIP 4.3K 1/16W(1608)
R562	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R563	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R565	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R566	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R567	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R568	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R600	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R601	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R602	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R603	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R604	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R605	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R606	1-218-734-11	s RESISTOR,CHIP 56K 1/16W(1608)
R607	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R608	1-216-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R609	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R610	1-216-854-11	s RESISTOR,CHIP 560K 1/16W
R611	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R612	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R613	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R614	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R615	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R616	1-218-236-91	s RESISTOR,CHIP 1.0
R617	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R618	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R619	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R620	1-218-644-11	s RESISTOR,METAL 10 1/16W
R621	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R622	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R623	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R624	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R625	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R626	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R627	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)
R628	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)
R629	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R630	1-218-231-11	s RESISTOR,CHIP 1 1/2W (4532)
R631	1-218-231-11	s RESISTOR,CHIP 1 1/2W (4532)
R632	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R633	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R634	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R635	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R636	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R637	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R638	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R639	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R640	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R641	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R642	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R644	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R645	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R646	1-216-854-11	s	RESISTOR,CHIP 560K 1/16W
R647	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R648	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R649	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R650	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R651	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R652	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R653	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R654	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R655	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R656	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R657	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R658	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R659	1-218-236-91	s	RESISTOR,CHIP 1.0
R660	1-218-236-91	s	RESISTOR,CHIP 1.0
R661	1-218-236-91	s	RESISTOR,CHIP 1.0
R662	1-218-236-91	s	RESISTOR,CHIP 1.0
R663	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R664	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R665	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R666	1-218-722-11	s	RESISTOR,CHIP 18K 1/16W 1608
R667	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R668	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R669	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R671	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R672	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R673	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R675	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R676	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R677	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R678	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R679	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R680	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R681	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R682	1-218-734-11	s	RESISTOR,CHIP 56K 1/16W(1608)
R683	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R684	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R685	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R686	1-218-751-11	s	RESISTOR,CHIP 300K 1/16W(1608)
R687	1-218-744-11	s	RESISTOR,METAL 150K 1/16
R688	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R689	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R690	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R691	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R692	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R693	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R694	1-218-717-11	s	RESISTOR,CHIP 11K 1/16W (1608)
R695	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R700	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R701	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R702	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R703	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)

(SV-194A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R704	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R705	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R706	1-218-742-11	s	RESISTOR,METAL 120K 1/16
R707	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R708	1-218-742-11	s	RESISTOR,METAL 120K 1/16
R709	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R710	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R711	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R712	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R713	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R714	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R715	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R716	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R717	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R718	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R719	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R720	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R721	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R722	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R723	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R724	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R726	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R727	1-216-854-11	s	RESISTOR,CHIP 560K 1/16W
R728	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R729	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R730	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R731	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R732	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R733	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R734	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R735	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R736	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R737	1-218-727-11	s	RESISTOR,CHIP 30K 1/16W(1608)
R738	1-218-742-11	s	RESISTOR,METAL 120K 1/16
R740	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R741	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R742	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R743	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R744	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R745	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R746	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R747	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R748	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R749	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R750	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R751	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R752	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R753	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R754	1-218-231-11	s	RESISTOR,CHIP 1 1/2W (4532)
R755	1-218-231-11	s	RESISTOR,CHIP 1 1/2W (4532)
R756	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R757	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R758	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R759	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R760	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R761	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R762	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R763	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R764	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)

(SV-194A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R765	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R768	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R769	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)
R770	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R771	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R773	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R774	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R775	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R776	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R777	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R900	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R901	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R902	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R903	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R904	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R905	1-216-853-11	s RESISTOR,CHIP 470K 1/16W(1608)
R906	1-218-696-11	s RESISTOR,CHIP 1.5K 1/16W(1608)
R907	1-218-644-11	s RESISTOR,METAL 10 1/16W
R908	1-218-684-11	s RESISTOR,CHIP 470 1/16W (1608)
R909	1-218-696-11	s RESISTOR,CHIP 1.5K 1/16W(1608)
R910	1-218-744-11	s RESISTOR,METAL 150K 1/16
R911	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R912	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R913	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R914	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R915	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R916	1-216-855-11	s RESISTOR,CHIP 680K 1/16W 1608
R917	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R918	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R919	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R920	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R921	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R922	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R950	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R951	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R952	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R953	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R954	1-216-298-00	s RESISTOR,CHIP 2.2 1/10(2012)
R955	1-216-298-00	s RESISTOR,CHIP 2.2 1/10(2012)
R956	1-218-236-91	s RESISTOR,CHIP 1.0
R957	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R958	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R959	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R960	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R961	1-216-298-00	s RESISTOR,CHIP 2.2 1/10(2012)
R962	1-216-298-00	s RESISTOR,CHIP 2.2 1/10(2012)
R963	1-218-236-91	s RESISTOR,CHIP 1.0
R964	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R965	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
RB100	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB200	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB201	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB202	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB203	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB204	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB205	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB300	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB301	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RB302	1-239-308-11	s RESISTOR ARRAY,CHIP 47K

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Ref. No. or Q'ty	Part No.	SP Description
RB303	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB304	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB305	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB400	1-239-308-11	s RESISTOR ARRAY,CHIP 47K
RV100	1-237-036-11	s RESISTOR,ADJ,CERMET 10K
S100	1-572-971-31	s SWITCH,SLIDE
S101	1-572-474-11	s SWITCH,TACTILE
S400	1-572-719-11	s SWITCH,PUSH(1 KEY)
S401	1-572-719-11	s SWITCH,PUSH(1 KEY)
S402	1-572-719-11	s SWITCH,PUSH(1 KEY)
S403	1-572-719-11	s SWITCH,PUSH(1 KEY)
S404	1-572-719-11	s SWITCH,PUSH(1 KEY)
S405	1-572-719-11	s SWITCH,PUSH(1 KEY)
S406	1-572-719-11	s SWITCH,PUSH(1 KEY)
T950	1-424-511-11	s TRANSFORMER,FE
T951	1-424-511-11	s TRANSFORMER,FE
X100	1-760-273-11	s VIBRATOR, CRYSTAL
X400	1-579-928-11	s VIBRATOR CERAMIC (2.27MHZ)

SW-21 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8322-899-A	o	MOUNTED CIRCUIT BOARD, SW-21
4pcs	4-352-844-01	o	PIN, LEAD, COATING
C1	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C2	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C4	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C5	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C6	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C7	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C8	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C9	1-107-686-11	s	CAPACITOR, CHIP ELECT 4.7MF/16V
C10	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C11	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C12	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C14	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C15	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C18	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C19	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C21	1-126-397-11	s	CAPACITOR ELECT 33MF/25V (CHIP)
C22	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C23	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C25	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C26	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C27	1-117-193-11	s	CAPACITOR, 3 TERMINAL 1.5MF/50V
C28	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C30	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C31	1-107-689-21	s	CAPACITOR TANTALUM 1MF/35V
C32	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C33	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C34	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C35	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C36	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C37	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C38	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C39	1-162-919-11	s	CAPACITOR, CERAMIC 22PF/50V CH
C40	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C41	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C42	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C43	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C44	1-115-416-11	s	CAPACITOR, CERAMIC 1000PF/25V
C45	1-104-913-11	s	CAPACITOR, CHIP TANTAL 10MF/16V
C46	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C49	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C50	1-164-227-11	s	CAPACITOR, CERAMIC 0.022MF/25V
C51	1-165-176-11	s	CAPACITOR, CERAMIC 47000PF/16V
C52	1-107-686-11	s	CAPACITOR, CHIP ELECT 4.7MF/16V
CN3	1-691-591-11	o	PIN, CONNECTOR (8P) (SMD) 1.5MM
CN4	1-573-806-21	s	PIN, CONNECTOR (6P) (SMD) 1.5MM
CN5	1-573-290-21	s	PIN, CONNECTOR (4P) (SMD) 1.5MM
CN6	1-766-383-11	o	PIN, CONNECTOR (12P) (SMD) 1.5MM
CN11	1-691-591-11	o	PIN, CONNECTOR (8P) (SMD) 1.5MM
CN100	1-778-551-11	o	PIN, CONNECTOR 20P
D1	8-719-981-56	s	DIODE SB05W05CP (RECTI)
D2	8-719-981-56	s	DIODE SB05W05CP (RECTI)
D3	8-719-066-98	s	DIODE RB051L-40
D6	8-719-938-72	s	DIODE SB01-05CP (RECTI)
D7	8-719-941-86	s	DIODE DAN202U
D8	8-719-981-56	s	DIODE SB05W05CP (RECTI)

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Ref. No. or Q'ty	Part No.	SP	Description
D9	8-719-981-56	s	DIODE SB05W05CP (RECTI)
D10	8-719-820-41	s	DIODE 1SS302
IC1	8-759-058-45	s	IC NJM3403AV
IC3	8-759-058-45	s	IC NJM3403AV
IC6	8-759-058-45	s	IC NJM3403AV
IC12	8-759-521-35	s	IC TL5001CD
IC15	8-759-196-96	s	IC TC7SH08FU (TE85R)
IC16	8-759-564-49	s	IC TC7W53FU-TE12R
IC17	8-759-259-18	s	IC MB3793-42PNF
IC18	8-759-184-64	s	IC TC4W66FU
IC20	8-759-165-37	s	IC X24164SIC7000
IC23	8-759-149-10	s	IC UPD4702G
IC24	8-759-710-88	s	IC NJM431U
L1	1-424-642-11	s	COIL, CHOKE 47UH
L3	1-424-642-11	s	COIL, CHOKE 47UH
Q1	8-729-117-32	s	TRANSISTOR 2SC4177
Q2	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q3	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q4	8-729-045-53	s	TRANSISTOR SI4431DY-T1
Q5	8-729-141-75	s	TRANSISTOR 2SD596DV345
Q6	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q7	8-729-029-14	s	TRANSISTOR DTC144EUA-T106
Q9	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q11	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
R1	1-218-724-11	s	RESISTOR, CHIP 22K 1/16W(1608)
R2	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R3	1-218-668-11	s	RESISTOR, CHIP 100 1/16W (1608)
R4	1-218-692-11	s	RESISTOR, CHIP 1.0K 1/16W(1608)
R5	1-218-716-11	s	RESISTOR, CHIP 10K 1/16W(1608)
R6	1-218-690-11	s	RESISTOR, CHIP 820 1/16W (1608)
R7	1-218-668-11	s	RESISTOR, CHIP 100 1/16W (1608)
R8	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R9	1-218-692-11	s	RESISTOR, CHIP 1.0K 1/16W(1608)
R11	1-218-724-11	s	RESISTOR, CHIP 22K 1/16W(1608)
R12	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R13	1-218-748-11	s	RESISTOR, CHIP 220K 1/16W(1608)
R14	1-218-716-11	s	RESISTOR, CHIP 10K 1/16W(1608)
R15	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R16	1-218-708-11	s	RESISTOR, CHIP 4.7K 1/16W(1608)
R17	1-218-736-11	s	RESISTOR, CHIP 68K 1/16W(1608)
R18	1-218-720-11	s	RESISTOR, CHIP 15K 1/16W(1608)
R20	1-218-692-11	s	RESISTOR, CHIP 1.0K 1/16W(1608)
R22	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R23	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R25	1-218-644-11	s	RESISTOR, METAL 10 1/16W
R26	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R27	1-218-692-11	s	RESISTOR, CHIP 1.0K 1/16W(1608)
R28	1-218-668-11	s	RESISTOR, CHIP 100 1/16W (1608)
R29	1-218-668-11	s	RESISTOR, CHIP 100 1/16W (1608)
R30	1-218-692-11	s	RESISTOR, CHIP 1.0K 1/16W(1608)
R32	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R37	1-218-726-11	s	RESISTOR, CHIP 27K 1/16W (1608)
R38	1-218-748-11	s	RESISTOR, CHIP 220K 1/16W(1608)
R39	1-218-708-11	s	RESISTOR, CHIP 4.7K 1/16W(1608)
R40	1-218-692-11	s	RESISTOR, CHIP 1.0K 1/16W(1608)
R41	1-218-740-11	s	RESISTOR, CHIP 100K 1/16W(1608)
R42	1-218-724-11	s	RESISTOR, CHIP 22K 1/16W(1608)

(SW-21 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R43	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R44	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R45	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R46	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R47	1-218-736-11	s RESISTOR,CHIP 68K 1/16W(1608)
R48	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)
R50	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R51	1-218-714-11	s RESISTOR,CHIP 8.2K 1/16W(1608)
R52	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R53	1-217-671-11	s RESISTOR CHIP 1 1/10W(2125)
R54	1-217-671-11	s RESISTOR CHIP 1 1/10W(2125)
R55	1-217-671-11	s RESISTOR CHIP 1 1/10W(2125)
R56	1-217-671-11	s RESISTOR CHIP 1 1/10W(2125)
R58	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R59	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R60	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R61	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R62	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R63	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R64	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R65	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R68	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R69	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R72	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R73	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R74	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R75	1 218 668 11	s RESISTOR,CHIP 100 1/16W (1608)
R76	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R77	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R78	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R79	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R80	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R81	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R82	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R84	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R85	1-218-728-11	s RESISTOR,METAL 33K 1/16W
R86	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R87	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R88	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R89	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R90	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R91	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)
R92	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R96	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R123	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R130	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R146	1-218-680-11	s RESISTOR,CHIP 330 1/16W(1608)
R149	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R150	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R155	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R156	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R157	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R158	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
RB1	1-239-436-11	s RESISTOR,NETWORK 33K (1608)
RB2	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB4	1-239-436-11	s RESISTOR,NETWORK 33K (1608)
RB5	1-239-436-11	s RESISTOR,NETWORK 33K (1608)
RB6	1-239-436-11	s RESISTOR,NETWORK 33K (1608)

(SW-21 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RB7	1-239-436-11	s RESISTOR,NETWORK 33K (1608)
RB8	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB9	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB10	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB11	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB12	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB13	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB14	1-236-904-11	s RESISTOR NETWORK 1K (1608)
RB15	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RB16	1-236-907-11	s RESISTOR BLOCK 100K (1608)
RV1	1-225-566-11	s RES, VAR, CARBON 50K
RV2	1-225-566-11	s RES, VAR, CARBON 50K
RV3	1-225-566-11	s RES, VAR, CARBON 50K
RV4	1-225-566-11	s RES, VAR, CARBON 50K
S1	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S2	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S3	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S4	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S5	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S6	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S7	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S8	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S9	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S10	1-692-881-41	s SWITCH, SLIDE
X1	1-760-465-11	s VIBRATOR, CRYSTAL

SW-22 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-973-A	o MOUNTED CIRCUIT BOARD, SW-22
1pc	4-937-336-32	o HOLDER, LED
CN3	1-691-591-11	o PIN,CONNECTOR (8P) (SMD) (1.5MM)
D1	8-719-076-36	s DIODE TLGE160
R1	1-216-635-11	s RESISTOR CHIP 220 1/10W (2012)
S1	1-572-725-11	s SWITCH,TACTILE
S2	1-572-725-11	s SWITCH,TACTILE
S3	1-572-725-11	s SWITCH,TACTILE
S4	1-572-725-11	s SWITCH,TACTILE
S5	1-572-725-11	s SWITCH,TACTILE
S6	1-572-725-11	s SWITCH,TACTILE

SW-23 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-974-A	o MOUNTED CIRCUIT BOARD, SW-23
CN4	1-573-806-21	s PIN,CONNECTOR (6P) (SMD) (1.5MM)
D1	8-719-059-71	s DIODE BR5305S
R1	1-216-635-11	s RESISTOR CHIP 220 1/10W (2012)
S1	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S2	1-570-865-11	s SWITCH, SLIDE (1-1-2)
S3	1-570-854-11	s SWITCH, SLIDE (1-1-3)

SY-259B BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8322-897-A	o MOUNTED CIRCUIT BOARD, SY-259B
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
2pcs	3-603-737-01	o LEVER,BOARD
1pc	Δ 1-767-156-11	s OSCILLATOR,CRYSTAL (IN BATTERY)
C1	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C2	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C3	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C4	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C5	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C101	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C102	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C103	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C104	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C105	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C106	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C108	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C109	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C110	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C111	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C113	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C114	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C115	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C116	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C117	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C118	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C119	1 162 923 11	s CAPACITOR,CERAMIC 47PF/50V CH
C120	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C121	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C122	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C123	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C124	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C125	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C126	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C127	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C128	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C129	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C130	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C131	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C132	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C133	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C134	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C135	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C136	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C137	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C138	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C141	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C144	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C145	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C146	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C200	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C201	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C202	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C205	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C206	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C207	1-162-915-11	s CAPACITOR,CERAMIC 10PF/50V CH
C208	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

(SY-259B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C209	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C210	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C211	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C212	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C213	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C215	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C217	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C218	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C219	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C220	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C221	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C222	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C223	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C224	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C225	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C226	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C300	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C304	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C305	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C306	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C307	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C308	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C309	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C310	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C311	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C312	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C313	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C314	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C315	1-113-991-11 s	CAPACITOR TANTALUM 33MF/16V
C316	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C317	1-126-394-11 s	CAPACITOR ELECT 10MF/16V(CHIP)
C318	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C330	1-104-913-11 s	CAPACITOR,CHIP TANTAL 10MF/16V
C400	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C401	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C402	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C403	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C404	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C405	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C406	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C407	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C408	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C409	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C410	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C411	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C412	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C413	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C414	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C415	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C416	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C417	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C418	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C419	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C420	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C421	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C422	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF

(SY-259B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C500	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C501	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C502	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C503	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C504	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C505	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C506	1-104-823-11 s	CAPACITOR,CHIP TANTAL 47MF/16V
CN1	1-779-746-21 s	CONNECTOR, BOARD TO BOARD 50P
CN2	1-580-056-21 o	PIN, CONNECTOR 3P
CN3	1-569-775-21 o	PIN, CONNECTOR 5P
CN4	1-580-057-11 o	PIN, CONNECTOR 4P
CN12	1-695-453-11 s	CONNECTOR,BOARD TO BOARD 50P
D100	8-719-024-81 s	DIODE 1SS300-TE85L
D200	8-719-024-81 s	DIODE 1SS300-TE85L
D201	8-719-987-43 s	LED CL-150PG-CD
D202	8-719-987-43 s	LED CL-150PG-CD
D203	8-719-987-43 s	LED CL-150PG-CD
D204	8-719-989-22 s	LED CL-150R-CD
IC1	8-759-271-86 s	IC TC7SH04FU
IC2	8-759-485-20 s	IC M5M5408ATP-55LL-EL
IC3	8-759-485-20 s	IC M5M5408ATP-55LL-EL
IC4	8-759-485-20 s	IC M5M5408ATP-55LL-EL
IC5	8-759-485-20 s	IC M5M5408ATP-55LL-EL
IC100	8-759-252-55 s	IC S-80745SL-A9
IC101	8-759-277-63 s	IC TC7W14FU (TE12R)
IC102	8-759-524-27 s	IC TC74VHC244FT(EL)
IC103	8-759-082-57 s	IC TC7W04FU
IC104	8-759-082-58 s	IC TC7W08FU
IC105	8-759-524-18 s	IC TC74VHC163FT(EL)
IC106	8-759-485-19 s	IC IDT79R3041-20PF
IC107	8-759-524-28 s	IC TC74VHC245FT(EL)
IC108	8-759-524-51 s	IC TC74VHC573FT (EL)
IC109	8-759-524-51 s	IC TC74VHC573FT (EL)
IC110	8-759-524-51 s	IC TC74VHC573FT (EL)
IC111	8-759-524-51 s	IC TC74VHC573FT (EL)
IC112	8-759-296-31 s	IC M48T18-100MH1TR
IC113	8-759-271-86 s	IC TC7SH04FU
IC115	8-759-082-59 s	IC TC7W32FU
IC117	8-759-429-27 s	IC CKD9001AR
IC118	8-759-447-77 s	IC TC7WH74FU (TR12R)
IC119	8-759-271-86 s	IC TC7SH04FU
IC120	8-759-524-08 s	IC TC74VHC139FT(EL)
IC121	8-759-196-96 s	IC TC7SH08FU (TE85R)
IC122	8-759-196-97 s	IC TC7SH32FU (TE85R)
IC123	8-759-196-97 s	IC TC7SH32FU (TE85R)
IC126	8-759-049-79 s	IC SN74HC245APWR
IC127	8-759-051-49 s	IC SN74HCT541APW (R)
IC200	8-759-082-59 s	IC TC7W32FU
IC201	8-759-190-79 s	IC UPD72001GC-11-3B6
IC202	8-759-082-57 s	IC TC7W04FU
IC203	8-759-524-25 o	IC TC7WH241FU(TE12R)
IC204	8-759-092-26 s	IC DS3691M
IC206	8-759-082-58 s	IC TC7W08FU
IC207	8-759-923-64 s	IC AM26LS32ACNS
IC208	8-759-196-96 s	IC TC7SH08FU (TE85R)
IC209	8-759-049-76 s	IC SN74HC244APW (E05)
IC210	8-759-082-61 s	IC TC4W53FU
IC211	8-759-049-96 s	IC SN74HC32APW

(SY-259B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC212	8-759-082-58	s	IC TC7W08FU
IC213	8-759-252-59	s	IC MAX202CSE
IC214	8-759-082-61	s	IC TC4W53FU
IC300	8-759-049-98	s	IC SN74HC74APW
IC301	8-759-049-60	s	IC SN74HC08APW
IC302	8-759-050-00	s	IC SN74HC86APW
IC303	8-759-271-86	s	IC TC7SH04FU
IC304	8-759-049-96	s	IC SN74HC32APW
IC305	8-759-050-12	s	IC SN74HC174APW (E05)
IC306	8-759-049-60	s	IC SN74HC08APW
IC307	8-759-545-80	s	IC LC3564BM-70-TLM
IC308	8-759-175-56	s	IC CXD8804Q
IC309	8-759-539-53	s	IC MB90096PF-G-139-BND (ER)
IC330	8-759-497-38	s	IC LTC1458CG-E2
IC400	8-759-973-43	s	IC MB8421-90LFFQ
IC401	8-759-271-86	s	IC TC7SH04FU
IC402	8-759-391-30	s	IC 74LVX3245QSCX
IC403	8-759-391-30	s	IC 74LVX3245QSCX
IC404	8-759-391-30	s	IC 74LVX3245QSCX
IC500	8-759-049-88	s	IC SN74HCT245APW (E05)
IC501	8-759-049-88	s	IC SN74HCT245APW (E05)
IC502	8-759-049-88	s	IC SN74HCT245APW (E05)
IC503	8-759-049-88	s	IC SN74HCT245APW (E05)
IC504	8-759-049-88	s	IC SN74HCT245APW (E05)
IS114	1-540-151-21	s	SOCKET, IC
IS116	1-540-151-21	s	SOCKET, IC
L400	1-409-579-11	s	COIL, CHOKE 8.2UH
L401	1-409-579-11	s	COIL, CHOKE 8.2UH
Q200	8-729-924-62	s	TRANSISTOR DTC113ZU
Q201	8-729-924-62	s	TRANSISTOR DTC113ZU
Q202	8-729-924-62	s	TRANSISTOR DTC113ZU
Q203	8-729-924-62	s	TRANSISTOR DTC113ZU
R100	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R101	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R102	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R103	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R104	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R105	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R106	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R107	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R108	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R109	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R110	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R111	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R112	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R113	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R114	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R115	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R116	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R117	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R118	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R119	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R120	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R121	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R122	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R123	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R124	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)

(SY-259B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R125	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R126	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R133	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R135	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R136	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R137	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R138	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R139	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R140	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R142	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R144	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R200	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R201	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R202	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R203	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R204	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R205	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R206	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R207	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R208	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R209	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R214	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R215	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R216	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R217	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R218	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R219	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R220	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R221	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R222	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R225	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R226	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R231	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R243	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R244	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R245	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R246	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R247	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R248	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R249	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R250	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R251	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R252	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R253	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R254	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R255	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R256	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R257	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R258	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R259	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R260	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R261	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R262	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R263	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R264	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R265	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R266	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R268	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R269	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R270	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R272	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R273	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R274	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R275	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R276	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R277	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R281	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R282	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R283	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R284	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R285	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R286	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R287	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R288	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R289	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R300	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R301	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R302	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R303	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R304	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R307	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R308	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R309	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R310	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R311	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R312	1 218 668 11 s	RESISTOR,CHIP 100 1/16W (1608)
R313	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R314	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R315	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R316	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R317	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R318	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R319	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R320	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R321	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R322	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R323	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R324	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R325	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R326	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R327	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R330	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R331	1-218-704-11 s	RESISTOR,CHIP 3.3K 1/16W(1608)
R332	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R333	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R334	1-218-683-11 s	RESISTOR,CHIP 430 1/16W (1608)
R335	1-218-680-11 s	RESISTOR,CHIP 330 1/16W(1608)
R400	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R401	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R402	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R403	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R404	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R405	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R406	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R407	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R408	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R409	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R410	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)

(SY-259B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R411	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R412	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R413	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R414	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R415	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R418	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R419	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R420	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R421	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R422	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R423	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R424	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R425	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R426	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R427	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R428	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R429	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R430	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R431	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R432	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R500	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R501	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R502	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R503	1-218-668-11 s	RESISTOR,CHIP 0 1/16W (1608)
R504	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R505	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R506	1 218 740 11 s	RESISTOR,CHIP 100K 1/16W(1608)
R507	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R508	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R509	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R510	1-218-692-11 s	RESISTOR,CHIP 1.0K 1/16W(1608)
R511	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R512	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
RB100	1-236-908-11 s	RESISTOR,NETWORK 10K (3216)
RB101	1-233-270-11 o	RESISTOR,NETWORK (8 GANG) 10K
RB103	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB104	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB105	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB106	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB107	1-233-477-11 s	NETWORK, RES (8 GANG) 1K
RB108	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB109	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB110	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB111	1-233-663-91 s	NETWORK, RES (8 GANG) 4.7K
RB200	1-233-270-11 o	RESISTOR, NETWORK (8 GANG) 10K
RB201	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB202	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB203	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB301	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB302	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB304	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB400	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB401	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB402	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB403	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB404	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB405	1-233-665-11 s	NETWORK, RES (8 GANG) 47K
RB500	1-239-412-11 s	NETWORK, RESISTOR 100 (1608)

(SY-259B BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RB501	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB502	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB503	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB504	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB505	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB506	1-239-412-11	s NETWORK, RESISTOR 100 (1608)
RB507	1-233-665-11	s NETWORK, RES (8 GANG) 47K
S100	1-572-474-11	s SWITCH, TACTILE
S200	1-572-473-11	s SWITCH, TACTILE
S201	1-692-271-31	s SWITCH, SLIDE
S202	1-692-271-31	s SWITCH, SLIDE
X100	1-760-528-11	s OSCILLATOR, CRYSTAL
X200	1-767-716-11	s OSCILLATOR, CRYSTAL

SY-260 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-680-A	o MOUNTED CIRCUIT BOARD, SY-260
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
2pcs	3-603-737-01	o LEVER, BOARD
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
C1	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C2	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C3	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C4	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C5	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C101	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C102	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C103	1-104-851-11	s CAPACITOR, TANTALUM 10MF/10V
C104	1-164-227-11	s CAPACITOR, CERAMIC 0.022MF/25V
C105	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C106	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C107	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C108	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C109	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C111	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C112	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C113	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C114	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C115	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C116	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C117	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C118	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C119	1 107 826 11	s CAPACITOR, CHIP CERAMIC 0.1MF
C120	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C121	1-162-923-11	s CAPACITOR, CERAMIC 47PF/50V CH
C122	1-162-923-11	s CAPACITOR, CERAMIC 47PF/50V CH
C123	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C124	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C125	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C126	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C127	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C128	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C129	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C130	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C131	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C132	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C133	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C134	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C135	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C136	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C138	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C140	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C141	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C142	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C145	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C146	1-113-991-11	s CAPACITOR TANTALUM 33MF/16V
C201	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C202	1-162-919-11	s CAPACITOR, CERAMIC 22PF/50V CH
C203	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C204	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C205	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C206	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C207	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C208	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C209	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF

(SY-260 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C210	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C211	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C212	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C213	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C215	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C217	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C218	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C219	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C220	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C221	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C222	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C223	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C224	1-113-991-11 s	CAPACITOR TANTALUM 33MF/16V
C226	1-113-991-11 s	CAPACITOR TANTALUM 33MF/16V
C301	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C303	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C304	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C305	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C310	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C311	1-113-991-11 s	CAPACITOR TANTALUM 33MF/16V
C312	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C401	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C402	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C403	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C410	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C411	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C412	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C413	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C414	1-113-991-11 s	CAPACITOR TANTALUM 33MF/16V
C415	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C450	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C451	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C452	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C453	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C454	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C455	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C456	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C457	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C458	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C459	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C501	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C502	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C503	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C504	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C505	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C506	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C507	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C508	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C509	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C510	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C511	1-115-581-11 s	CAPACITOR CHIP ELECT 100MF/16V
C512	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
CN22	1-695-453-11 s	CONNECTOR,BOARD TO BOARD 50P
CN202	1-569-775-21 o	PIN, CONNECTOR 5P
CN203	1-580-056-21 o	PIN, CONNECTOR 3P

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Ref. No. or Q'ty	Part No.	SP Description
D101	8-719-024-81 s	DIODE 1SS300-TE85L
D201	8-719-987-43 s	LED CL-150PG-CD
D202	8-719-987-43 s	LED CL-150PG-CD
D203	8-719-987-43 s	LED CL-150PG-CD
D204	8-719-989-22 s	LED CL-150R-CD
FL501	1-117-193-11 s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL502	1-117-193-11 s	CAPACITOR,3 TERMINAL 1.5MF/50V
IC1	8-759-271-86 s	IC TC7SH04FU
IC2	8-759-648-63 s	IC KM684000BLT-5LT
IC3	8-759-648-63 s	IC KM684000BLT-5LT
IC4	8-759-648-63 s	IC KM684000BLT-5LT
IC5	8-759-648-63 s	IC KM684000BLT-5LT
IC101	8-759-074-51 s	IC S-8054HNM-CQ-T1
IC102	8-759-082-57 s	IC TC7W04FU
IC103	8-759-277-63 s	IC TC7W14FU (TE12R)
IC104	8-759-524-18 s	IC TC74VHC163FT (EL)
IC105	8-759-524-18 s	IC TC74VHC163FT (EL)
IC106	8-759-082-58 s	IC TC7W08FU
IC107	8-759-926-18 s	IC SN74HC157ANS
IC108	8-759-485-19 s	IC IDT79R3041-20PF
IC109	8-759-049-76 s	IC SN74HC244APW (E05)
IC110	8-759-524-28 s	IC TC74VHC245FT (EL)
IC111	8-759-524-51 s	IC TC74VHC573FT (EL)
IC112	8-759-524-51 s	IC TC74VHC573FT (EL)
IC113	8-759-524-51 s	IC TC74VHC573FT (EL)
IC114	8-759-524-51 s	IC TC74VHC573FT (EL)
IC115	8-759-645-41 o	IC SY260 IC115 SY2 V3.20
IC116	8-759-429-27 s	IC CXD9001AR
IC117	8-759-447-77 s	IC TC7WH74FU (TR12R)
IC118	8-759-271-86 s	IC TC7SH04FU
IC119	8-759-523-94 s	IC TC74VHC32FT (EL)
IC120	8-759-524-07 s	IC TC74VHC138FT (EL)
IC121	8-759-524-07 s	IC TC74VHC138FT (EL)
IC122	8-759-523-92 s	IC TC74VHC21FT (EL)
IC123	8-759-523-94 s	IC TC74VHC32FT (EL)
IC126	8-759-271-86 s	IC TC7SH04FU
IC202	8-759-277-63 s	IC TC7W14FU (TE12R)
IC203	8-759-175-77 s	IC CXD8384Q
IC204	8-759-390-68 s	IC CXD8990R
IC206	8-759-195-81 s	IC TC7S86FU
IC207	8-759-049-98 s	IC SN74HC74APW
IC208	8-759-195-81 s	IC TC7S86FU
IC210	8-759-049-59 s	IC SN74HC04APW-EL
IC211	8-759-049-55 s	IC SN74HC00APW (E20)
IC212	8-759-252-59 s	IC MAX202CSE
IC214	8-759-082-57 s	IC TC7W04FU
IC301	8-759-545-80 s	IC LC3564BM-70-TLM
IC303	8-759-175-56 s	IC CXD8804Q
IC304	8-759-082-55 s	IC TC7W00FU
IC305	8-759-050-39 s	IC SN74HC574APW-EL
IC307	8-759-277-63 s	IC TC7W14FU (TE12R)
IC401	8-759-545-80 s	IC LC3564BM-70-TLM
IC402	8-759-175-56 s	IC CXD8804Q
IC451	8-759-391-30 s	IC 74LVX3245QSCX
IC452	8-759-391-30 s	IC 74LVX3245QSCX
IC453	8-759-391-30 s	IC 74LVX3245QSCX
IC454	8-759-391-30 s	IC 74LVX3245QSCX
IC455	8-759-391-30 s	IC 74LVX3245QSCX

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Ref. No. or Q'ty	Part No.	SP	Description
IC456	8-759-271-86	s	IC TC7SH04FU
IC457	8-759-082-57	s	IC TC7W04FU
IC458	8-759-082-57	s	IC TC7W04FU
IC459	8-759-049-76	s	IC SN74HC244APW (E05)
IC460	8-759-049-76	s	IC SN74HC244APW (E05)
IC461	8-759-049-76	s	IC SN74HC244APW (E05)
IS115	1-251-350-11	o	SOCKET, IC (PLCC) 32P
Q201	8-729-924-62	s	TRANSISTOR DTC113ZU
Q202	8-729-924-62	s	TRANSISTOR DTC113ZU
Q203	8-729-924-62	s	TRANSISTOR DTC113ZU
Q204	8-729-924-62	s	TRANSISTOR DTC113ZU
R102	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R103	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R104	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R105	1-218-668-11	s	RESISTOR,CHIP 0 1/16W (1608)
R106	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R107	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R108	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R109	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R110	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R111	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R112	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R113	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R114	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R115	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R116	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R117	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R118	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R119	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R120	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R121	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R122	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R124	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R125	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R126	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R127	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R128	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R130	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R131	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R132	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R133	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R134	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R137	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R138	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R139	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R140	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R141	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R142	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R143	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R144	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R145	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R146	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R201	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R202	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R203	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R204	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R205	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R206	1-218-680-11	s	RESISTOR,CHIP 330 1/16W(1608)
R207	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R208	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R210	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R211	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R212	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R213	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R215	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R216	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R217	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R218	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R219	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R220	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R221	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R222	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R223	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R224	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R225	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R228	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R229	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R230	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R231	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R232	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R233	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R234	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R235	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R236	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R239	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R240	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R241	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R242	1-216-033-00	s	RESISTOR,CHIP 220 1/10W(2012)
R243	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R244	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R245	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R246	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R247	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R248	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R249	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R250	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R251	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R252	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R253	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R254	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R255	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R256	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R257	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R258	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R259	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R260	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R261	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R262	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R263	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R264	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R301	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R302	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R303	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R304	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R305	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R306	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R307	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R308	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R309	1-218-732-11 s	RESISTOR,CHIP 47K 1/16W(1608)
R310	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R311	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R312	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R313	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R401	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R402	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R403	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R404	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R405	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R406	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R407	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R409	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R411	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R412	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R413	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R414	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R415	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R416	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R417	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R418	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R419	1-218-660-91 s	RESISTOR,CHIP 47 1/16W (1608)
R420	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R421	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R422	1 218 740 11 s	RESISTOR,CHIP 100K 1/16W(1608)
R423	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R424	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R425	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R426	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R427	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R428	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R429	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R430	1-218-740-11 s	RESISTOR,CHIP 100K 1/16W(1608)
R450	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R451	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R452	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R453	1-218-716-11 s	RESISTOR,CHIP 10K 1/16W(1608)
R455	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R456	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R457	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R458	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R459	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R460	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R461	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R462	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R463	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R464	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R465	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R466	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R467	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R468	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R469	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R470	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R471	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R472	1-218-652-11 s	RESISTOR,CHIP 22 1/16W (1608)
R473	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R474	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R475	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R476	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R477	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R479	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R480	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R481	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R482	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R483	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R484	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R485	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R486	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R487	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R488	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R489	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R490	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R491	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
R492	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R493	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R494	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R495	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R496	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R497	1-218-660-91 s	RESISTOR CHIP 47 1/16W (1608)
R498	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R499	1-218-668-11 s	RESISTOR,CHIP 100 1/16W (1608)
R500	1-216-864-11 s	RESISTOR,CHIP 0 1/16W (1608)
RB101	1-236-908-11 s	RESISTOR,NETWORK 10K (3216)
RB102	1 239 430 11 s	NETWORK RESISTOR 4.7K (1608)
RB103	1-239-430-11 s	NETWORK RESISTOR 4.7K (1608)
RB104	1-239-430-11 s	NETWORK RESISTOR 4.7K (1608)
RB105	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB106	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB107	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB108	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB109	1-239-303-11 s	RESISTOR ARRAY,CHIP 1K
RB110	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB111	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB112	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB113	1-239-305-11 s	RESISTOR ARRAY,CHIP 4.7K
RB201	1-239-306-11 s	RESISTOR ARRAY,CHIP 10K
RB202	1-239-306-11 s	RESISTOR ARRAY,CHIP 10K
RB301	1-239-306-11 s	RESISTOR ARRAY,CHIP 10K
RB302	1-239-711-11 s	NETWORK, RESISTOR 0 (1608)
RB303	1-239-309-11 s	RESISTOR ARRAY,CHIP 100K
RB401	1-239-308-11 s	RESISTOR ARRAY,CHIP 47K
RB402	1-239-308-11 s	RESISTOR ARRAY,CHIP 47K
RB403	1-239-309-11 s	RESISTOR ARRAY,CHIP 100K
RB410	1-239-621-11 s	NETWORK RESISTOR 22 (1608)
RB411	1-239-621-11 s	NETWORK RESISTOR 22 (1608)
RB412	1-239-621-11 s	NETWORK RESISTOR 22 (1608)
RB450	1-239-308-11 s	RESISTOR ARRAY,CHIP 47K
RB451	1-239-308-11 s	RESISTOR ARRAY,CHIP 47K
RB452	1-239-308-11 s	RESISTOR ARRAY,CHIP 47K
RB453	1-239-308-11 s	RESISTOR ARRAY,CHIP 47K
RB454	1-239-308-11 s	RESISTOR ARRAY,CHIP 47K
S101	1-572-474-11 s	SWITCH, TACTILE
S201	1-692-271-31 s	SWITCH, SLIDE
X101	1-760-528-11 s	OSCILLATOR, CRYSTAL
X201	1-579-993-21 s	VIBRATOR, CERAMIC

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Ref. No. or Q'ty	Part No.	SP Description
X202	1-767-716-11	s OSCILLATOR, CRYSTAL

TG-191 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8320-125-B	o MOUNTED CIRCUIT BOARD, TG-191
2pcs	3-603-737-01	o LEVER, BOARD
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
C100	1-126-392-11	s CAPACITOR, CHIP ELECT100MF/6.3V
C101	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C102	1-126-394-11	s CAPACITOR ELECT 10MF/16V (CHIP)
C103	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C104	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C105	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C106	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C107	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C108	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C109	1-126-392-11	s CAPACITOR, CHIP ELECT100MF/6.3V
C110	1-126-392-11	s CAPACITOR, CHIP ELECT100MF/6.3V
C111	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C112	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C113	1-126-392-11	s CAPACITOR, CHIP ELECT100MF/6.3V
C114	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C115	1-162-927-11	s CAPACITOR, CERAMIC 100PF/50V CH
C116	1-162-921-11	s CAPACITOR, CERAMIC 33PF/50V CH
C117	1-164-230-11	s CAPACITOR, CERAMIC 220PF/50V
C118	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C119	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C120	1-127-969-21	s CAPACITOR, FILM 0.0047MF/50V
C121	1-162-970-11	s CAPACITOR CERAMIC 0.01MF/25V B
C122	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C123	1 107 826 11	s CAPACITOR, CHIP CERAMIC 0.1MF
C124	1-162-927-11	s CAPACITOR, CERAMIC 100PF/50V CH
C126	1-164-315-11	s CAPACITOR, CERAMIC 470PF/50V CH
C127	1-164-230-11	s CAPACITOR, CERAMIC 220PF/50V
C128	1-127-969-21	s CAPACITOR, FILM 0.0047MF/50V
C129	1-115-156-11	s CAPACITOR, 1MF/10V (1608)
C130	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C131	1-164-230-11	s CAPACITOR, CERAMIC 220PF/50V
C132	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C133	1-164-315-11	s CAPACITOR, CERAMIC 470PF/50V CH
C134	1-164-227-11	s CAPACITOR, CERAMIC 0.022MF/25V
C135	1-107-686-11	s CAPACITOR, CHIP ELECT 4.7MF/16V
C136	1-107-686-11	s CAPACITOR, CHIP ELECT 4.7MF/16V
C137	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C138	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C139	1-127-975-21	s CAPACITOR, FILM 0.047MF/50V
C140	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C141	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C142	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C143	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C144	1-126-394-11	s CAPACITOR ELECT 10MF/16V (CHIP)
C145	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C146	1-162-963-11	s CAPACITOR, CERAMIC 680PF/50V (B)
C147	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C148	1-162-963-11	s CAPACITOR, CERAMIC 680PF/50V (B)
C149	1-164-315-11	s CAPACITOR, CERAMIC 470PF/50V CH
C150	1-126-392-11	s CAPACITOR, CHIP ELECT100MF/6.3V
C151	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C152	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF
C153	1-162-911-11	s CAPACITOR, CERAMIC 6PF/50V 1608
C154	1-162-907-11	s CAPACITOR, CERAMIC 2PF/50V (CK)
C155	1-107-826-11	s CAPACITOR, CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP Description
C156	1-162-921-11 s	CAPACITOR,CERAMIC 33PF/50V CH
C157	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C158	1-162-921-11 s	CAPACITOR,CERAMIC 33PF/50V CH
C159	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C160	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C161	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C162	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C163	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C164	1-127-977-21 s	CAPACITOR,FILM 0.1MF/50V
C165	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C166	1-127-977-21 s	CAPACITOR,FILM 0.1MF/50V
C167	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C168	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C169	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C170	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C171	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C172	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C173	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C174	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C175	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C176	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C177	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C178	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C179	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C180	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C181	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C182	1 107 826 11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C183	1-162-919-11 s	CAPACITOR,CERAMIC 22PF/50V CH
C184	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C185	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C186	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C187	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C188	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C189	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C190	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C191	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C192	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C193	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C194	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C195	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C196	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C197	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C198	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C199	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C200	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C201	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C202	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C205	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C207	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C208	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C209	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C210	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C211	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C212	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C213	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-113-500-11 s	CAPACITOR TANTALUM 100MF/10V

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Ref. No. or Q'ty	Part No.	SP Description
C215	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C217	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C218	1-164-230-11 s	CAPACITOR,CERAMIC 220PF/50V
C219	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C220	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C221	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C222	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C223	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C224	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C225	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C227	1-135-179-21 s	CAPACITOR,TANTALUM 2.2MF/16V
C228	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C229	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C230	1-162-964-11 s	CAPACITOR,CERAMIC 1000PF/50V B
C231	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C232	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C233	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C234	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C235	1-113-500-11 s	CAPACITOR TANTALUM 100MF/10V
C236	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C237	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C238	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C239	1-164-230-11 s	CAPACITOR,CERAMIC 220PF/50V
C240	1-162-925-11 s	CAPACITOR,CERAMIC 68PF/50V CH
C241	1-126-392-11 s	CAPACITOR,CHIP ELECT100MF/6.3V
C242	1 107 826 11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C243	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C244	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C245	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C246	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C247	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C248	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C249	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C250	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C251	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C252	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C253	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C254	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C255	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C256	1-162-963-11 s	CAPACITOR,CERAMIC 680PF/50V(B)
C257	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C258	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C259	1-162-927-11 s	CAPACITOR,CERAMIC 100PF/50V CH
C260	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C261	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C262	1-113-500-11 s	CAPACITOR TANTALUM 100MF/10V
C263	1-113-500-11 s	CAPACITOR TANTALUM 100MF/10V
C264	1-113-500-11 s	CAPACITOR TANTALUM 100MF/10V
C265	1-113-500-11 s	CAPACITOR TANTALUM 100MF/10V
C266	1-104-852-11 s	CAPACITOR,TANTALUM 22MF/10V
C267	1-104-852-11 s	CAPACITOR,TANTALUM 22MF/10V
C268	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C269	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C270	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C271	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C272	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C273	1-107-826-11 s	CAPACITOR,CHIP CERAMIC 0.1MF
C274	1-104-914-11 s	CAPACITOR CHIP TANTAL 22MF/16V

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Ref. No. or Q'ty	Part No.	SP	Description
C275	1-115-156-11	s	CAPACITOR,1MF/10V (1608)
C276	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C277	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C278	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C279	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C280	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C281	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C282	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C283	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C284	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C285	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C286	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C287	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C288	1-115-156-11	s	CAPACITOR,1MF/10V (1608)
C289	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C290	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C291	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C292	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C300	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C301	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C305	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C306	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C307	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C308	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C309	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C310	1 162 919 11	s	CAPACITOR,CERAMIC 22PF/50V CH
C311	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C312	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C313	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C314	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C315	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C316	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C317	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C318	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C319	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C320	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C321	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C322	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C323	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C324	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C325	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C326	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C327	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C328	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C329	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C330	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C332	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C333	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C338	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C339	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C340	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C400	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C401	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C402	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C403	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C404	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)
C405	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C406	1-126-394-11	s	CAPACITOR ELECT 10MF/16V (CHIP)

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Ref. No. or Q'ty	Part No.	SP	Description
C407	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C408	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C409	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C410	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C411	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C412	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C413	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C414	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C415	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C416	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C417	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C418	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C427	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C429	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C430	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C431	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C432	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C433	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C434	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C435	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C436	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C440	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C441	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C451	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C454	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C455	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C456	1 107 826 11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN52	1-695-453-11	s	CONNECTOR,BOARD TO BOARD 50P
CP101	1-767-619-11	s	OSCILLATOR, CRYSTAL
CP103	1-767-617-11	s	OSCILLATOR, CRYSTAL
CP201	1-767-589-11	s	OSCILLATOR, LITHIUM TANTALATE
CP202	1-760-275-11	s	OSCILLATOR, CRYSTAL (VCO TYPE)
D102	8-719-820-41	s	DIODE 1SS302
D103	8-719-820-41	s	DIODE 1SS302
D201	8-719-820-41	s	DIODE 1SS302
D202	8-719-820-41	s	DIODE 1SS302
D204	8-719-820-41	s	DIODE 1SS302
D205	8-719-023-69	s	DIODE SB007T03Q
FB101	1-469-094-11	s	FERRITE, EMI (SMD)
FB103	1-469-094-11	s	FERRITE, EMI (SMD)
FB104	1-469-094-11	s	FERRITE, EMI (SMD)
FB202	1-469-094-11	s	FERRITE, EMI (SMD)
FB208	1-469-094-11	s	FERRITE, EMI (SMD)
FB209	1-469-094-11	s	FERRITE, EMI (SMD)
IC100	8-759-196-93	s	IC TC7SH00FU-TE85R
IC101	8-759-389-68	s	IC 74VHCT04MTCX
IC102	8-759-195-81	s	IC TC7S86FU
IC103	8-759-485-82	s	IC MC34182DR2
IC104	8-759-082-57	s	IC TC7W04FU
IC105	8-759-009-07	s	IC MC14053BF
IC106	8-759-295-09	s	IC TLC2932IPW
IC107	8-759-987-27	s	IC LM1881M
IC108	8-759-485-82	s	IC MC34182DR2
IC109	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC110	8-759-262-03	s	IC MC14577CF
IC111	8-759-196-93	s	IC TC7SH00FU-TE85R

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Ref. No. or Q'ty	Part No.	SP Description
IC112	8-759-338-95	s IC NJM2903V (TE2)
IC113	8-759-702-08	s IC NJM360M
IC114	8-759-523-81	s IC TC74VHC08FT(EL)
IC115	8-759-196-97	s IC TC7SH32FU (TE85R)
IC116	8-759-239-55	s IC TC74HC123AF
IC117	8-759-471-98	s IC 74VHCT08MTCX
IC118	8-759-196-97	s IC TC7SH32FU (TE85R)
IC119	8-759-491-50	s IC TC74VHCT244AFT(EL)
IC120	8-759-528-99	s IC TC74VHC221AFT(EL)
IC121	8-759-082-61	s IC TC4W53FU
IC122	8-759-271-86	s IC TC7SH04FU
IC123	8-759-528-99	s IC TC74VHC221AFT(EL)
IC124	8-759-234-77	s IC TC4S66F
IC125	8-759-338-95	s IC NJM2903V (TE2)
IC126	8-759-702-08	s IC NJM360M
IC127	8-759-523-83	s IC TC74VHC11FT(EL)
IC128	8-759-175-66	s IC CXD8817Q
IC129	8-759-485-82	s IC MC34182DR2
IC130	8-759-907-81	s IC SN74LS221N(S)
IC131	8-759-491-46	s IC TC74VHCT04AFT (EL)
IC132	8-759-082-61	s IC TC4W53FU
IC133	8-729-047-61	s TRANSISTOR SI4925DY-T1
IC134	8-729-024-50	s TRANSISTOR SI9936DY
IC135	8-759-196-96	s IC TC7SH08FU (TE85R)
IC136	8-759-485-82	s IC MC34182DR2
IC137	8-759-009-07	s IC MC14053BF
IC138	8-759-485-82	s IC MC34182DR2
IC139	8-759-485-82	s IC MC34182DR2
IC141	8-759-234-77	s IC TC4S66F
IC200	8-759-196-96	s IC TC7SH08FU (TE85R)
IC201	8-759-196-93	s IC TC7SH00FU-TE85R
IC202	8-752-334-64	s IC CXD1171M
IC203	8-759-050-03	s IC SN74HC151APW-E20
IC204	8-759-271-86	s IC TC7SH04FU
IC205	8-759-524-18	s IC TC74VHC163FT(EL)
IC206	8-759-389-68	s IC 74VHCT04MTCX
IC207	8-759-295-09	s IC TLC2932IPW
IC208	8-759-702-08	s IC NJM360M
IC209	8-759-523-95	s IC TC74VHC74FT(EL)
IC210	8-752-334-64	s IC CXD1171M
IC211	8-759-523-95	s IC TC74VHC74FT(EL)
IC212	8-759-485-82	s IC MC34182DR2
IC213	8-759-523-95	s IC TC74VHC74FT(EL)
IC214	8-759-702-08	s IC NJM360M
IC215	8-759-271-86	s IC TC7SH04FU
IC216	8-759-009-07	s IC MC14053BF
IC217	8-759-175-65	s IC CXD8821Q
IC218	8-759-050-03	s IC SN74HC151APW-E20
IC219	8-759-907-81	s IC SN74LS221N(S)
IC220	8-759-491-46	s IC TC74VHCT04AFT (EL)
IC221	8-759-262-03	s IC MC14577CF
IC222	8-759-485-82	s IC MC34182DR2
IC223	8-759-338-95	s IC NJM2903V (TE2)
IC224	8-759-523-81	s IC TC74VHC08FT(EL)
IC225	8-759-390-07	s IC CXD8997R
IC226	8-759-082-57	s IC TC7W04FU
IC227	8-759-523-94	s IC TC74VHC32FT(EL)
IC228	8-759-338-95	s IC NJM2903V (TE2)
IC229	8-759-196-97	s IC TC7SH32FU (TE85R)

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Ref. No. or Q'ty	Part No.	SP Description
IC230	8-759-234-77	s IC TC4S66F
IC231	8-759-234-77	s IC TC4S66F
IC232	8-759-986-32	s IC 74ACT244SJ
IC233	8-759-196-97	s IC TC7SH32FU (TE85R)
IC234	8-759-485-82	s IC MC34182DR2
IC300	8-759-524-28	s IC TC74VHC245FT(EL)
IC301	8-759-524-28	s IC TC74VHC245FT(EL)
IC302	8-759-524-28	s IC TC74VHC245FT(EL)
IC303	8-759-524-28	s IC TC74VHC245FT(EL)
IC304	8-759-523-78	s IC TC74VHC00FT(EL)
IC305	8-759-523-78	s IC TC74VHC00FT(EL)
IC306	8-759-524-28	s IC TC74VHC245FT(EL)
IC307	8-759-524-28	s IC TC74VHC245FT(EL)
IC308	8-759-523-78	s IC TC74VHC00FT(EL)
IC310	8-759-524-28	s IC TC74VHC245FT(EL)
IC400	8-759-391-30	s IC 74LVX3245QSCX
IC401	8-759-524-28	s IC TC74VHC245FT(EL)
IC402	8-759-524-28	s IC TC74VHC245FT(EL)
IC405	8-759-271-86	s IC TC7SH04FU
IC406	8-759-251-40	s IC MB88E346PFV-G-BND-ER
IC407	8-759-491-46	s IC TC74VHCT04AFT (EL)
IC411	8-759-391-30	s IC 74LVX3245QSCX
IC412	8-759-391-30	s IC 74LVX3245QSCX
IC413	8-752-381-56	s IC CXD1095AR
IC414	8-759-524-07	s IC TC74VHC138FT(EL)
IC415	8-759-196-96	s IC TC7SH08FU (TE85R)
IC416	8-759-271-86	s IC TC7SH04FU
L100	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L101	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L102	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L103	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L104	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L105	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L106	1-410-385-11	s CHIP INDUCTOR 22UH (3225)
L107	1-410-388-31	s CHIP INDUCTOR 39UH
L108	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L201	1-410-381-11	s CHIP INDUCTOR 10UH (3225)
L202	1-410-381-11	s CHIP INDUCTOR 10UH (3225)
L203	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L204	1-410-393-11	s CHIP INDUCTOR 100UH (3225)
L205	1-410-389-31	s INDUCTOR,CHIP 47UH (3225)
L206	1-410-389-31	s INDUCTOR,CHIP 47UH (3225)
L207	1-410-389-31	s INDUCTOR,CHIP 47UH (3225)
L208	1-410-389-31	s INDUCTOR,CHIP 47UH (3225)
L401	1-424-641-11	s COIL,CHOKE (SHIELD)
L402	1-424-641-11	s COIL,CHOKE (SHIELD)
L403	1-409-579-11	s COIL, CHOKE 8.2UH
L404	1-409-579-11	s COIL, CHOKE 8.2UH
L405	1-409-579-11	s COIL, CHOKE 8.2UH
L406	1-409-579-11	s COIL, CHOKE 8.2UH
Q100	8-729-028-91	s TRANSISTOR DTA144EUA-T106
Q101	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q102	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q103	8-729-143-07	s TRANSISTOR 2SA1610-Y33
Q104	8-729-029-14	s TRANSISTOR DTC144EUA-T106
Q105	8-729-143-07	s TRANSISTOR 2SA1610-Y33
Q106	8-729-117-32	s TRANSISTOR 2SC4177
Q107	8-729-117-32	s TRANSISTOR 2SC4177

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Ref. No. or Q'ty	Part No.	SP	Description
Q108	8-729-117-32	s	TRANSISTOR 2SC4177
Q109	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q110	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q111	8-729-117-32	s	TRANSISTOR 2SC4177
Q112	8-729-028-91	s	TRANSISTOR DTA144EUA-T106
Q201	8-729-117-32	s	TRANSISTOR 2SC4177
Q202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
R100	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R101	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R103	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R104	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R105	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R106	1-218-690-11	s	RESISTOR CHIP 820 1/16W (1608)
R107	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R108	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R109	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R110	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R111	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R112	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R113	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R114	1-218-718-11	s	RESISTOR CHIP 12K 1/16W (1608)
R115	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R116	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R117	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R118	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R119	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R120	1 218 692 11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R121	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R122	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R123	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R124	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R125	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R126	1-218-732-11	s	RESISTOR,CHIP 47K 1/16W(1608)
R127	1-218-736-11	s	RESISTOR,CHIP 68K 1/16W(1608)
R128	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R129	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R130	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R131	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R132	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R133	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R134	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R135	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R136	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R137	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R138	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R139	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R140	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R141	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R142	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R143	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R144	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R145	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R146	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R147	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R148	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R149	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R150	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R151	1-216-789-11	s	RESISTOR,CHIP 2.2 1/16W(1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R152	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R153	1-216-857-11	s	RESISTOR,CHIP 1.0M 1/16W 1608
R154	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R155	1-218-723-11	s	RESISTOR,CHIP 20K 1/16W(1608)
R156	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R157	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R158	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R159	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R160	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R161	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R162	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R163	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R164	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R165	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R166	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R167	1-218-729-11	s	RESISTOR,CHIP 36K 1/16W(1608)
R168	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R169	1-218-734-11	s	RESISTOR,CHIP 56K 1/16W(1608)
R171	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R172	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R173	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R174	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R175	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R176	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R177	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R178	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R179	1 218 668 11	s	RESISTOR,CHIP 100 1/16W (1608)
R180	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R181	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R182	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R183	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R184	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R185	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R186	1-216-853-11	s	RESISTOR,CHIP 470K 1/16W(1608)
R187	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R188	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R189	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R190	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R191	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R192	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R193	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R194	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R195	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R196	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R197	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R198	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R199	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R200	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R201	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R202	1-218-734-11	s	RESISTOR,CHIP 56K 1/16W(1608)
R203	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R204	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R205	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R206	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R207	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R208	1-218-728-11	s	RESISTOR,METAL 33K 1/16W
R209	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R210	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R211	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP Description
R212	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R213	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R214	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R215	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R216	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R217	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R218	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R219	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R220	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)
R221	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R222	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R223	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R224	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R225	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608
R226	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R228	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R229	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R230	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R231	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)
R232	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)
R233	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R234	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)
R235	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R236	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R237	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R238	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R239	1 218 726 11	s RESISTOR CHIP 27K 1/16W (1608)
R240	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R241	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R242	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R243	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R244	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R245	1-218-738-11	s RESISTOR,CHIP 82K 1/16W(1608)
R246	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)
R247	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R248	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R249	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R250	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)
R251	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)
R252	1-216-855-11	s RESISTOR,CHIP 680K 1/16W 1608
R253	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R254	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R255	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R256	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R257	1-218-713-11	s RESISTOR,METAL 7.5K 1/16W
R258	1-218-712-11	s RESISTOR,METAL 6.8K 1/16W
R259	1-218-719-11	s RESISTOR,METAL 13K 1/16
R260	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R261	1-218-730-11	s RESISTOR METAL FILM CHIP 39K
R262	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R263	1-218-700-11	s RESISTOR,CHIP 2.2K 1/16W(1608)
R264	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R265	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R266	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R267	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R268	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R269	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R270	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R271	1-218-703-11	s RESISTOR,METAL 3.0K 1/16(1608)

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Ref. No. or Q'ty	Part No.	SP Description
R272	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R273	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R274	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R275	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R276	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R277	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R278	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R279	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R280	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R281	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R282	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R283	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R284	1-218-703-11	s RESISTOR,METAL 3.0K 1/16(1608)
R285	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R286	1-218-748-11	s RESISTOR,CHIP 220K 1/16W(1608)
R287	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R288	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R289	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R290	1-218-719-11	s RESISTOR,METAL 13K 1/16
R291	1-218-724-11	s RESISTOR,CHIP 22K 1/16W(1608)
R292	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R293	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)
R294	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R295	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R296	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R297	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)
R300	1 218 652 11	s RESISTOR,CHIP 22 1/16W (1608)
R305	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R307	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)
R316	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R317	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R318	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R319	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R320	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R321	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R322	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R323	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R324	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R325	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R326	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R327	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R328	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R329	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R330	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R331	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R332	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R333	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R334	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R336	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R337	1-218-702-11	s RESISTOR CHIP 2.7K 1/16W(1608)
R338	1-218-684-11	s RESISTOR CHIP 470 1/16W (1608)
R339	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)
R340	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R343	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)
R347	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R348	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R349	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R350	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)
R351	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
R352	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R353	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R354	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R355	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R356	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R361	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R362	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R363	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R364	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R365	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R366	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R373	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R377	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R393	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
K394	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R395	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R396	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R397	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R398	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R399	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R400	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R401	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R402	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R409	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R410	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R411	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R414	1 218 676 11	s	RESISTOR,CHIP 220 1/16W(1608)
R415	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R416	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R420	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R421	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R422	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R423	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R424	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R425	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R426	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R427	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R428	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
RB1	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB2	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB3	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB4	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB5	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB6	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB7	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB8	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB9	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB10	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB11	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB101	1-233-270-11	o	RESISTOR,NETWORK (8 GANG) 10K
RB400	1-239-416-11	s	NETWORK, RESISTOR 220 (1608)
RB401	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB402	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB403	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB404	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB405	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB406	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB407	1-239-416-11	s	NETWORK, RESISTOR 220 (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
RB408	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB409	1-233-665-11	s	NETWORK, RES (8 GANG) 47K
RB410	1-233-665-11	s	NETWORK, RES (8 GANG) 47K

VFD ASSEMBLY

Ref. No. or Q'ty	Part No.	SP Description
1pc	4-352-844-01	s PIN, LEAD, COATING
C3	1-135-210-11	s CAP, CHIP TANTALUM ELECT 4.7MF
C4	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C5	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C6	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C7	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C10	1-107-419-11	s CAP, CHIP ELECT 22MF
C11	1-107-419-11	s CAP, CHIP ELECT 22MF
C12	1-163-015-11	s CAP, CHIP CERAMIC 3300PF B 2012
C13	1-104-607-11	s CAP, CHIP ELECT 47MF
C14	9-884-661-01	s CAPACITOR ELECT 8.2MF
C15	9-884-661-01	s CAPACITOR ELECT 8.2MF
C16	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C17	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C18	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C19	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C20	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C21	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C22	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C23	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C24	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C25	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C26	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C27	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C28	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C29	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C30	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C31	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C32	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C33	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C34	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C35	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C36	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C37	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C38	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C39	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C40	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C41	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C42	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C43	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C44	1-135-072-21	s CAP, CHIP TANTALUM ELECT 0.22MF
C45	1-113-682-11	s CAP, CHIP TANTALUM ELECT 33MF
C46	1-107-689-11	s CAP, CHIP TANTALUM ELECT 1MF
C47	1-104-581-11	s CAP, CHIP TANTALUM ELECT 10MF 16V
C48	1-104-581-11	s CAP, CHIP TANTALUM ELECT 10MF 16V
C49	1-163-235-11	s CAP, CHIP CERAMIC 22PF CH 2012
C50	1-163-235-11	s CAP, CHIP CERAMIC 22PF CH 2012
C51	9-884-655-01	s CAPACITOR, CERAMIC 0.047MF
C52	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C53	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C54	1-163-038-00	s CAP, CERAMIC 100000PF F (2012)
C55	1-163-271-11	s CAP, CHIP CERAMIC 680PF CH 2012
CN1	1-764-007-21	s PIN, CONNECTOR (SMD) 12P
CN2	1-691-551-21	s PIN, CONNECTOR (SMD) 8P
CN3	1-750-143-11	s PIN, SIL 7P
CN4	1-580-055-21	s PIN, CONNECTOR (SMD) 2P
CN14	1-750-143-11	s PIN, SIL 7P
D1	8-719-108-24	s DIODE 1SS223

(VFD ASSEMBLY)

Ref. No. or Q'ty	Part No.	SP Description
D2	8-719-108-24	s DIODE 1SS223
D3	8-719-108-24	s DIODE 1SS223
D4	8-719-051-03	s DIODE EC11FS4-TE12L5
D5	8-719-108-24	s DIODE 1SS223
D6	8-719-054-55	s DIODE 1SS306 (TE85L)
F1	Δ 9-884-659-01	s FUSE
L1	9-884-658-01	s COIL 10uH
LCD	1-801-194-11	s LCD
LED1	9-885-000-14	s LED TLYE160A
LED2	8-719-076-36	s DIODE TLGE160
LED3	8-719-032-78	s LED GL3UR8
LED4	8-719-061-82	s LED TLSU1002 (TPX1, SONY)
LED5	8-719-061-82	s LED TLSU1002 (TPX1, SONY)
LED6	8-719-076-36	s DIODE TLGE160
LED7	8-719-076-36	s DIODE TLGE160
LED8	8-719-076-36	s DIODE TLGE160
LED9	8-719-061-82	s LED TLSU1002 (TPX1, SONY)
LED10	8-719-062-48	s DIODE CL-200YG-C-TS
LED11	8-719-062-48	s DIODE CL-200YG-C-TS
LED12	8-719-062-48	s DIODE CL-200YG-C-TS
LED13	8-719-062-48	s DIODE CL-200YG-C-TS
LED14	8-719-062-48	s DIODE CL-200YG-C-TS
LED15	8-719-062-48	s DIODE CL-200YG-C-TS
LED16	8-719-062-48	s DIODE CL-200YG-C-TS
LED17	8-719-062-48	s DIODE CL-200YG-C-TS
LED18	8-719-062-48	s DIODE CL-200YG-C-TS
LED19	8-719-062-48	s DIODE CL-200YG-C-TS
LED20	8-719-032-78	s LED GL3UR8
Q1	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q2	8-729-202-37	s TRANSISTOR 2SC3303-Y
Q3	9-884-660-01	s TRANSISTOR 2SC2881 (O.Y) TE12R
Q4	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q5	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q6	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q7	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q8	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q9	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q10	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q11	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q12	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q13	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q14	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q15	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q16	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q17	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q18	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q19	8-729-028-73	s TRANSISTOR DTA114EUA-T106
Q21	8-729-028-96	s TRANSISTOR DTC114EUA-T106
Q22	8-729-028-73	s TRANSISTOR DTA114EUA-T106
R1	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
R7	1-216-833-11	s RES, CHIP 10K
R16	1-216-637-11	s RES, METAL FILM CHIP 270
R17	1-220-286-11	s RES, SQUARE TYPE CHIP 12K (3225)
R18	1-216-835-11	s RES, CHIP 15K
R19	1-218-477-11	s RES, SQUARE TYPE CHIP 220 (3225)
R20	1-220-262-11	s RES, SQUARE TYPE CHIP 680 (3225)
R21	1-216-813-11	s RES, CHIP 220

(VFD ASSEMBLY)

Ref. No. or Q'ty	Part No.	SP	Description
R22	1-220-265-11	s	RES, SQUARE TYPE CHIP 1.2K 3225
R23	1-220-265-11	s	RES, SQUARE TYPE CHIP 1.2K 3225
R24	1-220-258-11	s	RES, SQUARE TYPE CHIP 100 (3225)
R25	1-220-311-11	s	RES, SQUARE TYPE CHIP 68K (3225)
R26	1-220-311-11	s	RES, SQUARE TYPE CHIP 68K (3225)
R27	1-220-313-11	s	RES, SQUARE TYPE CHIP 100K 3225
R28	1-220-313-11	s	RES, SQUARE TYPE CHIP 100K 3225
R30	1-216-847-11	s	RES, CHIP 150K
R31	1-216-857-11	s	RES, CHIP 1.0M
R32	1-220-313-11	s	RES, SQUARE TYPE CHIP 100K 3225
R34	1-218-477-11	s	RES, SQUARE TYPE CHIP 220 (3225)
R35	1-218-477-11	s	RES, SQUARE TYPE CHIP 220 (3225)
R37	1-216-821-11	s	RES, CHIP 1.0K
R38	1-216-821-11	s	RES, CHIP 1.0K
R39	1-220-261-11	s	RES, SQUARE TYPE CHIP 470 (3225)
R40	1-220-281-11	s	RES, SQUARE TYPE CHIP 4.7K 3225
R41	1-216-833-11	s	RES, CHIP 10K
R42	1-216-829-11	s	RES, CHIP 4.7K
R43	1-216-821-11	s	RES, CHIP 1.0K
R44	1-216-833-11	s	RES, CHIP 10K
R45	1-216-833-11	s	RES, CHIP 10K
R46	1-216-819-11	s	RES, CHIP 680
R50	1-216-819-11	s	RES, CHIP 680
R58	1-216-819-11	s	RES, CHIP 680
R62	1-216-845-11	s	RES, CHIP 100K
R63	1-216-845-11	s	RES, CHIP 100K
R64	1-216-845-11	s	RES, CHIP 100K
R65	1-216-845-11	s	RES, CHIP 100K
R66	1-216-845-11	s	RES, CHIP 100K
R67	1-216-845-11	s	RES, CHIP 100K
R68	1-216-845-11	s	RES, CHIP 100K
R69	1-216-845-11	s	RES, CHIP 100K
R70	1-216-845-11	s	RES, CHIP 100K
R71	1-216-845-11	s	RES, CHIP 100K
R72	1-216-845-11	s	RES, CHIP 100K
R73	1-216-845-11	s	RES, CHIP 100K
R74	1-216-845-11	s	RES, CHIP 100K
R75	1-216-845-11	s	RES, CHIP 100K
R76	1-216-845-11	s	RES, CHIP 100K
R77	1-216-845-11	s	RES, CHIP 100K
R78	1-216-845-11	s	RES, CHIP 100K
R79	1-216-845-11	s	RES, CHIP 100K
R80	1-216-845-11	s	RES, CHIP 100K
R81	1-216-845-11	s	RES, CHIP 100K
R82	1-216-845-11	s	RES, CHIP 100K
R83	1-216-845-11	s	RES, CHIP 100K
R85	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
R89	1-216-809-11	s	RES, CHIP 100
R90	1-216-809-11	s	RES, CHIP 100
R91	1-216-809-11	s	RES, CHIP 100
R92	1-216-809-11	s	RES, CHIP 100
R93	1-216-809-11	s	RES, CHIP 100
R94	1-216-809-11	s	RES, CHIP 100
R95	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
R99	1-216-809-11	s	RES, CHIP 100
R100	1-216-809-11	s	RES, CHIP 100
R101	1-216-809-11	s	RES, CHIP 100
R102	1-216-809-11	s	RES, CHIP 100
R103	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
R107	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100

(VFD ASSEMBLY)

Ref. No. or Q'ty	Part No.	SP	Description
R110	1-216-839-11	s	RES, CHIP 33K
R111	1-216-839-11	s	RES, CHIP 33K
R113	1-216-839-11	s	RES, CHIP 33K
R114	1-216-834-11	s	RES, CHIP 12K
R115	1-216-834-11	s	RES, CHIP 12K
R116	1-216-834-11	s	RES, CHIP 12K
R117	1-216-834-11	s	RES, CHIP 12K
R118	1-216-834-11	s	RES, CHIP 12K
R119	1-216-834-11	s	RES, CHIP 12K
R120	1-216-821-11	s	RES, CHIP 1.0K
R121	1-216-821-11	s	RES, CHIP 1.0K
R122	1-216-821-11	s	RES, CHIP 1.0K
R123	1-216-821-11	s	RES, CHIP 1.0K
R124	1-216-821-11	s	RES, CHIP 1.0K
R125	1-216-821-11	s	RES, CHIP 1.0K
R126	1-216-821-11	s	RES, CHIP 1.0K
R127	1-216-821-11	s	RES, CHIP 1.0K
R128	1-216-821-11	s	RES, CHIP 1.0K
R129	1-216-821-11	s	RES, CHIP 1.0K
R130	1-216-821-11	s	RES, CHIP 1.0K
R131	1-216-821-11	s	RES, CHIP 1.0K
R132	1-216-821-11	s	RES, CHIP 1.0K
R133	1-216-821-11	s	RES, CHIP 1.0K
R134	1-216-821-11	s	RES, CHIP 1.0K
R135	1-216-821-11	s	RES, CHIP 1.0K
R136	1-216-821-11	s	RES, CHIP 1.0K
R137	1-216-821-11	s	RES, CHIP 1.0K
R138	1-216-821-11	s	RES, CHIP 1.0K
R139	1-220-258-11	s	RES, SQUARE TYPE CHIP 100 (3225)
R140	1-220-258-11	s	RES, SQUARE TYPE CHIP 100 (3225)
R141	1-220-258-11	s	RES, SQUARE TYPE CHIP 100 (3225)
R142	1-220-258-11	s	RES, SQUARE TYPE CHIP 100 (3225)
R143	1-220-258-11	s	RES, SQUARE TYPE CHIP 100 (3225)
R144	1-220-258-11	s	RES, SQUARE TYPE CHIP 100 (3225)
R145	1-220-255-11	s	RES, SQUARE TYPE CHIP 68 (3225)
R146	1-220-259-11	s	RES, SQUARE TYPE CHIP 150 (3225)
R147	1-220-259-11	s	RES, SQUARE TYPE CHIP 150 (3225)
R148	1-218-927-11	s	RES, SQUARE TYPE CHIP 560 (3225)
R149	1-218-927-11	s	RES, SQUARE TYPE CHIP 560 (3225)
R150	1-218-927-11	s	RES, SQUARE TYPE CHIP 560 (3225)
R151	1-218-927-11	s	RES, SQUARE TYPE CHIP 560 (3225)
R152	1-218-927-11	s	RES, SQUARE TYPE CHIP 560 (3225)
R153	1-218-927-11	s	RES, SQUARE TYPE CHIP 560 (3225)
R154	1-218-780-11	s	RES, SQUARE TYPE CHIP 270 (3225)
R155	1-218-780-11	s	RES, SQUARE TYPE CHIP 270 (3225)
R156	1-218-780-11	s	RES, SQUARE TYPE CHIP 270 (3225)
R157	1-216-819-11	s	RES, CHIP 680
R158	1-216-819-11	s	RES, CHIP 680
R159	1-216-819-11	s	RES, CHIP 680
R160	1-239-436-11	s	NETWORK RESISTOR (CHIP) 33K
R161	1-239-436-11	s	NETWORK RESISTOR (CHIP) 33K
R162	1-239-436-11	s	NETWORK RESISTOR (CHIP) 33K
R163	1-239-436-11	s	NETWORK RESISTOR (CHIP) 33K
R164	1-216-819-11	s	RES, CHIP 680
R165	1-239-412-11	s	NETWORK RESISTOR (CHIP) 100
R166	1-216-834-11	s	RES, CHIP 12K
R171	1-216-819-11	s	RES, CHIP 680
R172	1-216-809-11	s	RES, CHIP 100
R180	1-216-845-11	s	RES, CHIP 100K
R182	1-236-908-11	s	NETWORK RESISTOR (CHIP) 10K

(VFD ASSEMBLY)

Ref. No. or Q'ty	Part No.	SP Description
R183	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
R184	1-236-908-11	s NETWORK RESISTOR (CHIP) 10K
R185	1-218-927-11	s RES, SQUARE TYPE CHIP 560 (3225)
R210	1-216-803-11	s RES, CHIP 33
R211	1-216-803-11	s RES, CHIP 33
R212	1-216-803-11	s RES, CHIP 33
R213	1-216-803-11	s RES, CHIP 33
R214	1-216-803-11	s RES, CHIP 33
R215	1-216-331-11	s RES, CHIP 9.1K
R216	1-216-849-11	s RES, CHIP 220K
R217	1-216-849-11	s RES, CHIP 220K
R218	1-216-849-11	s RES, CHIP 220K
R219	1-216-849-11	s RES, CHIP 220K
SW1	1-572-725-11	s SWITCH, TACTILE
SW2	1-572-725-11	s SWITCH, TACTILE
SW3	1-572-725-11	s SWITCH, TACTILE
SW4	1-572-725-11	s SWITCH, TACTILE
SW5	1-572-725-11	s SWITCH, TACTILE
SW6	1-572-725-11	s SWITCH, TACTILE
SW7	1-572-725-11	s SWITCH, TACTILE
SW8	1-771-257-11	s SWITCH, TACTILE (ILLUMINATED)
SW9	1-771-258-11	s SWITCH, TACTILE (ILLUMINATED)
SW10	1-771-259-31	s SWITCH, TACTILE (ILLUMINATED)
SW11	1-771-260-11	s SWITCH, TACTILE (ILLUMINATED)
SW12	1-771-257-21	s SWITCH, TACTILE (ILLUMINATED)
SW13	1-771-257-21	s SWITCH, TACTILE (ILLUMINATED)
SW14	1 771 257 11	s SWITCH, TACTILE (ILLUMINATED)
SW15	1-771-257-11	s SWITCH, TACTILE (ILLUMINATED)
SW16	1-771-801-11	s SWITCH, TACTILE (ILLUMINATED)
SW17	1-570-865-11	s SWITCH, SLIDE
SW18	1-570-865-11	s SWITCH, SLIDE
T1	9-884-657-01	s TRANSFORMER
U1	9-885-000-16	s IC MBCG46183-127
U3	8-759-322-72	s IC HM6264ALFP-10
U21	8-759-524-05	s IC TC74VHC126FT (EL)
U23	8-759-165-37	s IC X24164SIC7000
U24	8-759-058-45	s IC NJM3403AV
U25	8-759-058-45	s IC NJM3403AV
U26	8-759-196-96	s IC TC7SH08FU (TE85R)
U27	8-759-259-18	s IC MB3793-42PNF
U28	8-759-184-64	s IC TC4W66FU
U29	8-759-183-51	s IC TL431CPK
U30	8-759-480-10	s IC HD64F3048F16
U31	8-759-249-93	s IC LC75821W
VR1	1-225-566-11	s RES, VAR, CARBON 50K
VR2	1-226-416-11	s RES, VAR, CARBON 10K
VR3	1-225-566-11	s RES, VAR, CARBON 50K
VR4	1-226-416-11	s RES, VAR, CARBON 10K
VR5	1-225-566-11	s RES, VAR, CARBON 50K
VR6	1-225-566-11	s RES, VAR, CARBON 50K
VR7	1-226-416-11	s RES, VAR, CARBON 10K
VR8	1-226-416-11	s RES, VAR, CARBON 10K
X1	9-884-656-01	s VIBRATOR, CRYSTAL 7.9MHz
X2	1-760-465-11	s VIBRATOR, CRYSTAL 16MHz
ZD1	8-719-046-60	s DIODE HZK6C
ZD2	8-719-058-61	s DIODE HZM11NB3TL
ZD3	8-719-072-02	s DIODE HZK9CLTR

VPR-34 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8316-698-A	o MOUNTED CIRCUIT BOARD, VPR-34
2pcs	3-603-737-01	o LEVER,BOARD
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1) (STEEL)
C100	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C101	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C102	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C103	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C104	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C105	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C106	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C107	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C108	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C109	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C110	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C111	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C112	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C113	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C114	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C115	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C116	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C117	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C200	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C201	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C202	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C203	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C205	1 107 826 11	s CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C207	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C208	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C209	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C210	1-104-915-11	s CAPACITOR,CHIP 2.2MF/20V
C211	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C212	1-162-927-11	s CAPACITOR,CERAMIC 100PF/50V CH
C213	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C214	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C215	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-115-169-11	s CAPACITOR,TANTAL (SMD) 10MF
C217	1-162-923-11	s CAPACITOR,CERAMIC 47PF/50V CH
C218	1-115-169-11	s CAPACITOR,TANTAL (SMD) 10MF
C219	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C220	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C221	1-107-854-11	s CAPACITOR TANTALUM 68MF/6.3V
C222	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C223	1-107-854-11	s CAPACITOR TANTALUM 68MF/6.3V
C224	1-115-169-11	s CAPACITOR,TANTAL (SMD) 10MF
C225	1-115-169-11	s CAPACITOR,TANTAL (SMD) 10MF
C226	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C227	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C228	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C229	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C230	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C231	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C232	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C233	1-115-170-11	s CAPACITOR,TANTAL (SMD) 4.7MF/10V
C234	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF
C235	1-115-170-11	s CAPACITOR,TANTAL (SMD) 4.7MF/10V
C236	1-107-826-11	s CAPACITOR,CHIP CERAMIC 0.1MF

(VPR-34 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C300	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C301	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C302	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C303	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C304	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C305	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C306	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C307	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C308	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C309	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C310	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C311	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C312	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C313	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C314	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C315	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C316	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C317	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C318	1-162-958-11	s	CAPACITOR,CERAMIC 270PF/50V SL
C319	1-117-373-11	s	CAPACITOR, (SMD) 150MF/6.3V
C320	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C321	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C322	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C323	1-162-914-11	s	CAPACITOR,CERAMIC 9PF/50V 1608
C324	1-163-145-00	s	CAPACITOR,CHIP CERAMIC 1500PF
C325	1-163-257-11	s	CAPACITOR CERAMIC 180PF/50V
C326	1 107 686 11	s	CAPACITOR,CHIP ELECT 4.7MF/16V
C327	1-162-908-11	s	CAPACITOR,CERAMIC 3PF/50V 1608
C328	1-107-686-11	s	CAPACITOR,CHIP ELECT 4.7MF/16V
C329	1-135-177-21	s	CAPACITOR TANTALUM 1MF/25V
C330	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C331	1-162-910-11	s	CAPACITOR,CERAMIC 5PF/50V 1608
C332	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C333	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C334	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C335	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C336	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C337	1-162-916-11	s	CAPACITOR,CERAMIC 12PF/50V CH
C338	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C339	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C340	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C341	1-117-229-11	s	CAPACITOR, (SMD) 10MF/10V
C342	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C343	1-104-823-11	s	CAPACITOR,CHIP TANTAL 47MF/16V
C344	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C400	1-117-229-11	s	CAPACITOR, (SMD) 10MF/10V
C401	1-117-229-11	s	CAPACITOR, (SMD) 10MF/10V
C402	1-117-229-11	s	CAPACITOR, (SMD) 10MF/10V
C403	1-117-229-11	s	CAPACITOR, (SMD) 10MF/10V
C404	1-117-229-11	s	CAPACITOR, (SMD) 10MF/10V
C407	1-115-169-11	s	CAPACITOR,TANTAL (SMD) 10MF
C408	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C409	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C410	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C411	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C417	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C418	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C419	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C420	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

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Ref. No. or Q'ty	Part No.	SP	Description
C421	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C422	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C423	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C424	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C425	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN42	1-695-453-11	s	CONNECTOR,BOARD TO BOARD 50P
CP200	1-760-263-11	s	OSCILLATOR, CRYSTAL (VCO TYPE)
CP202	1-760-277-11	s	OSCILLATOR, CRYSTAL (VCO TYPE)
D200	8-719-404-35	s	DIODE MA141WK
D300	8-719-023-69	s	DIODE SB007T03Q
FB200	1-543-309-21	s	BEAD,FERRITE
FB201	1-543-309-21	s	BEAD,FERRITE
FB202	1-543-309-21	s	BEAD,FERRITE
FB203	1-543-309-21	s	BEAD,FERRITE
FL300	1-239-721-11	s	FILTER, LOW PASS (6MHZ)
FL400	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
FL401	1-117-193-11	s	CAPACITOR,3 TERMINAL 1.5MF/50V
IC100	8-759-375-04	s	IC CXD8985AQ
IC101	8-759-524-28	s	IC TC74VHC245FT(EL)
IC102	8-759-524-28	s	IC TC74VHC245FT(EL)
IC103	8-759-524-28	s	IC TC74VHC245FT(EL)
IC104	8-759-524-28	s	IC TC74VHC245FT(EL)
IC105	8-759-524-28	s	IC TC74VHC245FT(EL)
IC106	8-759-524-28	s	IC TC74VHC245FT(EL)
IC107	8 759 524 28	s	IC TC74VHC245FT(EL)
IC108	8-759-524-28	s	IC TC74VHC245FT(EL)
IC109	8-759-524-28	s	IC TC74VHC245FT(EL)
IC110	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC111	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC112	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC113	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC114	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC115	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC116	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC117	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC118	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC119	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC120	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC121	8-759-557-59	s	IC UPD4516821AG5-A10B-9NF
IC122	8-759-271-86	s	IC TC7SH04FU
IC123	8-759-271-86	s	IC TC7SH04FU
IC124	8-759-271-86	s	IC TC7SH04FU
IC200	8-759-247-03	s	IC CXD8810BQ
IC201	8-759-271-86	s	IC TC7SH04FU
IC202	8-759-083-94	s	IC TC7W74FU
IC203	8-759-454-75	s	IC CXD9008Q
IC204	8-759-907-81	s	IC SN74LS221N(S)
IC205	8-759-389-68	s	IC 74VHCT04MTCX
IC206	8-759-524-10	s	IC TC74VHC157FT (EL)
IC207	8-759-295-09	s	IC TLC2932IPW
IC208	8-759-082-55	s	IC TC7W00FU
IC209	8-759-234-77	s	IC TC4S66F
IC210	8-759-485-82	s	IC MC34182DR2
IC211	8-729-047-61	s	TRANSISTOR SI4925DY-T1
IC212	8-759-389-31	s	IC 74LCX125MTCX
IC213	8-759-524-52	s	IC TC74VHC574FT(EL)
IC214	8-759-524-52	s	IC TC74VHC574FT(EL)

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Ref. No. or Q'ty	Part No.	SP Description	
IC215	8-759-477-86	s IC UPD485506G5-25-7JF	(E2)
IC300	8-759-710-88	s IC NJM431U	
IC301	8-752-357-62	s IC CXD2307R	
IC302	8-759-485-82	s IC MC34182DR2	
IC303	8-759-271-04	s IC LT1252CS8	
IC304	8-759-082-61	s IC TC4W53FU	
IC305	8-759-082-58	s IC TC7W08FU	
IC306	8-752-061-02	s IC CXA1450M	
IC307	8-759-392-64	s IC AD828AR	
IC400	8-759-386-25	s IC 74LCX245MTCX	
IC401	8-759-524-50	s IC TC74VHC541FT(EL)	
IC402	8-759-524-28	s IC TC74VHC245FT(EL)	
IC403	8-759-524-50	s IC TC74VHC541FT(EL)	
IC404	8-759-524-50	s IC TC74VHC541FT(EL)	
IC405	8-759-277-63	s IC TC74W14FU (TE12R)	
IC406	8-759-491-46	s IC TC74VHCT04AFT (EL)	
IC407	8-759-391-30	s IC 74LVX3245QSCX	
IC408	8-759-391-30	s IC 74LVX3245QSCX	
IC409	8-759-389-68	s IC 74VHCT04MTCX	
IC410	8-759-154-60	s IC UPD71055GB-10-3B4	
IC411	8-759-082-55	s IC TC7W00FU	
IC412	8-759-058-62	s IC TC7S08FU-TE85R	
L200	1-410-393-11	s CHIP INDUCTOR 100UH (3225)	
L300	1-410-737-31	s CHIP INDUCTOR 0.47UH (3225)	
L301	1-410-381-11	s CHIP INDUCTOR 10UH (3225)	
L302	1-410-381-11	s CHIP INDUCTOR 10UH (3225)	
L303	1 412 166 11	s MICRO INDUCTOR 0.18UH	
L304	1-412-143-11	s INDUCTOR,MICRO 39UH	
L305	1-410-387-11	s CHIP INDUCTOR 33UH (3225)	
L401	1-410-381-11	s CHIP INDUCTOR 10UH (3225)	
L402	1-409-647-11	s COIL, CHOKE 22UH	
Q200	8-729-029-14	s TRANSISTOR DTC144EUA-T106	
Q201	8-729-029-14	s TRANSISTOR DTC144EUA-T106	
Q300	8-729-106-68	s TRANSISTOR 2SD1615A-GP	
Q301	8-729-140-63	s TRANSISTOR 2SA1611-M5M6	
Q302	8-729-117-32	s TRANSISTOR 2SC4177	
Q303	8-729-117-32	s TRANSISTOR 2SC4177	
R101	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R102	1-218-740-11	s RESISTOR,CHIP 100K 1/16W(1608)	
R103	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R104	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R105	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R106	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R107	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R108	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R109	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R110	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R111	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R112	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R113	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R114	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R115	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R116	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R117	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R121	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R122	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R123	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	

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Ref. No. or Q'ty	Part No.	SP Description	
R200	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R201	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R202	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R203	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R204	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R205	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R208	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)	
R209	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R211	1-218-726-11	s RESISTOR CHIP 27K 1/16W (1608)	
R212	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)	
R213	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)	
R214	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)	
R215	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608	
R216	1-218-720-11	s RESISTOR,CHIP 15K 1/16W(1608)	
R217	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R219	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)	
R220	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)	
R221	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)	
R222	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)	
R223	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)	
R224	1-218-716-11	s RESISTOR,CHIP 10K 1/16W(1608)	
R225	1-216-857-11	s RESISTOR,CHIP 1.0M 1/16W 1608	
R226	1-218-732-11	s RESISTOR,CHIP 47K 1/16W(1608)	
R227	1-218-694-11	s RESISTOR CHIP 1.2K1/16W(1608)	
R228	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)	
R229	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R230	1 218 692 11	s RESISTOR,CHIP 1.0K 1/16W(1608)	
R231	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R232	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R233	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R234	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R235	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)	
R236	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R237	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R238	1-218-644-11	s RESISTOR,METAL 10 1/16W	
R239	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)	
R240	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)	
R241	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)	
R242	1-218-652-11	s RESISTOR,CHIP 22 1/16W (1608)	
R243	1-218-660-91	s RESISTOR CHIP 47 1/16W (1608)	
R244	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R245	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R300	1-218-686-11	s RESISTOR CHIP 560 1/16W (1608)	
R301	1-218-706-11	s RESISTOR,CHIP 3.9K 1/16W(1608)	
R302	1-218-694-11	s RESISTOR CHIP 1.2K1/16W(1608)	
R303	1-218-730-11	s RESISTOR METAL FILM CHIP 39K	
R305	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)	
R306	1-218-708-11	s RESISTOR,CHIP 4.7K 1/16W(1608)	
R308	1-216-864-11	s RESISTOR,CHIP 0 1/16W (1608)	
R309	1-218-718-11	s RESISTOR CHIP 12K 1/16W (1608)	
R310	1-218-728-11	s RESISTOR,METAL 33K 1/16W	
R311	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R312	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R313	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)	
R314	1-218-668-11	s RESISTOR,CHIP 100 1/16W (1608)	
R315	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)	
R316	1-218-704-11	s RESISTOR,CHIP 3.3K 1/16W(1608)	
R317	1-218-676-11	s RESISTOR,CHIP 220 1/16W(1608)	
R318	1-218-692-11	s RESISTOR,CHIP 1.0K 1/16W(1608)	

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Ref. No. or Q'ty	Part No.	SP	Description
R319	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R320	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R321	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R322	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R323	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R324	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R325	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R326	1-218-650-11	s	RESISTOR,CHIP 18 1/16W (1608)
R327	1-218-666-11	s	RESISTOR CHIP 82 1/16W (1608)
R328	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R329	1-218-697-11	s	RESISTOR,CHIP 1.6K 1/16W(1608)
R330	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R331	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R332	1-216-863-11	s	RESISTOR,CHIP 3.3M 1/16W 1608
R333	1-218-730-11	s	RESISTOR METAL FILM CHIP 39K
R334	1-218-701-11	s	RESISTOR,CHIP 2.4K 1/16W(1608)
R335	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R336	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R337	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R338	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R339	1-218-694-11	s	RESISTOR CHIP 1.2K1/16W(1608)
R340	1-218-660-91	s	RESISTOR CHIP 47 1/16W (1608)
R341	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R342	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R343	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R344	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R345	1 218 692 11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R346	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R347	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R348	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R349	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R350	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R351	1-218-652-11	s	RESISTOR,CHIP 22 1/16W (1608)
R352	1-218-664-11	s	RESISTOR,CHIP 68 1/16W (1608)
R353	1-218-664-11	s	RESISTOR,CHIP 68 1/16W (1608)
R354	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R355	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R356	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R357	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R359	1-218-684-11	s	RESISTOR CHIP 470 1/16W (1608)
R400	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R401	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R402	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R403	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R404	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R405	1-218-644-11	s	RESISTOR,METAL 10 1/16W
R410	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R411	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R412	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R413	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R414	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R415	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R416	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
R417	1-216-864-11	s	RESISTOR,CHIP 0 1/16W (1608)
RB100	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB101	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB102	1-236-907-11	s	RESISTOR BLOCK 100K (1608)
RB103	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB104	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)

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Ref. No. or Q'ty	Part No.	SP	Description
RB105	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB200	1-239-409-11	s	RESISTOR NETWORK 47 (1608)
RB201	1-239-955-11	s	RESISTOR,NETWORK
RB202	1-239-955-11	s	RESISTOR,NETWORK
RB203	1-239-955-11	s	RESISTOR,NETWORK
RB204	1-239-955-11	s	RESISTOR,NETWORK
RB205	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB206	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB207	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB208	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB209	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB210	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB211	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB212	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB213	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB214	1-239-711-11	s	NETWORK, RESISTOR 0 (1608)
RB400	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB401	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB402	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB403	1-236-908-11	s	RESISTOR,NETWORK 10K (3216)
RB404	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB405	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB406	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB407	1-239-309-11	s	RESISTOR ARRAY,CHIP 100K
RB408	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB409	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB410	1 233 936 11	s	NETWORK RESISTOR 10 (1608)
RB411	1-233-936-11	s	NETWORK RESISTOR 10 (1608)
RB412	1-233-936-11	s	NETWORK RESISTOR 10 (1608)

1-4. Supplied Accessories List

Q'ty	Part No.	SP Description
11pcs	3-604-795-01	s CAP BNC
2pcs	3-609-573-02	s CAP,DC OUT
4pcs	3-613-703-01	o CAP,XLR(F) (for J)
2pcs	3-613-703-01	o CAP,XLR(F) (for SY)
3pcs	3-613-704-01	o CAP,XLR(M) (for J)
5pcs	3-613-704-01	o CAP,XLR(M) (for SY)
1pc	3-673-948-11	o CAP,DUST

1-5. Fixtures List

Part No.	SP Description
A-8317-304-A	o HN-257 MOUNTED CIRCUIT BOARD
A-8319-485-A	s IC MEMORY CARD BOX, CDS-20 ASSEMBLY
A 8321 000 A	o EXTENSION BOARD, EX 706
A-8322-838-A	o CN-1936 MOUNTED CIRCUIT BOARD
J-6035-070-A	o EXTRUCTION TOOL (for PLCC socket)
J-6080-840-A	s INSPECTION MIRROR
J-6252-510-A	o TORQUE SCREWDRIVER (6 kg·cm) (0.6 N·m)
J-6252-520-A	o TORQUE SCREWDRIVER (12 kg·cm) (1.2 N·m)
J-6325-400-A	o TORQUE SCREWDRIVER (3 kg·cm)
J-6323-420-A	o TORQUE SCREWDRIVER'S BIT (+2 mm, l=75 mm)
J-6325-110-A	o TORQUE SCREWDRIVER'S BIT (l=75 mm)
J-6325-380-A	o TORQUE SCREWDRIVER'S BIT (l=162 mm)
J-6322-420-A	o TAPE GUIDE ADJUSTMENT DRIVER (45)
J-6323-530-A	o STOP WASHER FASTENING TOOL
J-6323-890-A	o TORQUE CASSETTE (FWD BACK TEN.)
J-6324-150-A	o REEL TABLE HEIGHT ADJUSTMENT TOOL
J-6326-120-A	o HEXAGONAL BIT (d=1.5 mm, l=85 mm)
J-6332-240-A	o VISC PHASE ADJUSTING TOOL (for DNW-A28P only)
J-6530-650-A	o HEAD TIP PROTRUSION MEASUREMENT GAUGE
J-7032-610-A	o CASSETTE REFERENCE PLATE
1-772-004-11	o CARD (4MB), MEMORY
3-184-527-01	s CLEANING CLOTH (15 cm x 15 cm)
3-649-266-01	s PARALLEL PIN (d=1.6 mm)
3-703-358-04	o PARALLEL PIN (d=2.0 mm)
7-432-114-11	s LOCKING COMPOUND, 1401B (200 g)
7-651-000-10	s SONY GREASE SGL-601 (50 g)
7-651-000-11	s SONY GREASE SGL-801 (50 g)
7-651-000-59	o GREASE PG-662
7-661-018-18	s DIAMOND OIL NT 68 (50 ml)
7-700-751-01	s BOX DRIVER (d=4.5 mm)
8-960-075-01	o ALIGNMENT TAPE, SR5-1 (for 525/60 system)
8-960-075-11	o ALIGNMENT TAPE, SR2-1 (for 525/60 system)
8-960-075-51	o ALIGNMENT TAPE, SR5-1P (for 625/50 system)
8-960-075-61	o ALIGNMENT TAPE, SR2-1P (for 625/50 system)
8-960-096-01	o ALIGNMENT TAPE, CR2-1B (for analog Betacam, NTSC)
8-960-096-41	o ALIGNMENT TAPE, CR5-1B (for analog Betacam, NTSC)
8-960-096-51	o ALIGNMENT TAPE, CR2-1B PS (for analog Betacam, PAL)
8-960-097-44	o ALIGNMENT TAPE, CR5-2A (OXIDE TAPE) (for analog Betacam, NTSC)
8-960-097-45	o ALIGNMENT TAPE, CR8-1A (OXIDE TAPE) (for analog Betacam, NTSC)
8-960-096-91	o ALIGNMENT TAPE, CR5-1B PS (METAL PARTICLE TAPE) (for analog Betacam, PAL)
8-960-096-86	o ALIGNMENT TAPE, CR8-1B PS (METAL PARTICLE TAPE) (for analog Betacam, PAL)
8-960-098-44	o ALIGNMENT TAPE, CR5-2A PS (OXIDE TAPE) (for analog Betacam, PAL)
8-960-098-45	o ALIGNMENT TAPE, CR8-1A PS (OXIDE TAPE) (for analog Betacam, PAL)
9-919-573-01	s CLEANING LIQUID

Section 2

Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.

For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section.

However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.

In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled “Semiconductor Pin Assignments” (Sony Part No. 9-968-546-xx) that allows searching for parts by semiconductor type or ID No.

The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.

Pin assignments and block diagrams are based on the IC manufacturer’s data book.

本機に使用されている半導体型名の一覧を下記に示します。索引中、ページが記載されている半導体は、本章の該当ページを参照してください。ただし、互換性のない型名を併記している場合がありますので、部品を交換するときは、Spare Partsの章を参照してください。

また、ID番号が記載されている半導体は、別途発行の“Semiconductor Pin Assignments” CD-ROM版 (ソニー部品番号：9-968-546-xx)を参照してください。

半導体型名またはID番号から検索ができます。

マニュアルまたはCD-ROMに掲載されている半導体は、それぞれの機能を等価的に表わしたものです。

外観やインデックスマークの表示方法が実物と異なる場合があります。

ピン配置およびブロック図はICメーカーのデータブックに従いました。

DIODE	Page or ID No.
1S2836	DC001-02
1S2836-T1	DC001-02
1S2837-T1	DC001-03
1SS184	DC001-03
1SS187	DC001-05
1SS223	DC001-05
1SS300-TE85L	DC001-02
1SS301-TF85I	DC001-03
1SS302	DC001-01
1SS302-TE85L	DC001-01
1SS306(TE85L)	DC004-01
DA204U	DC001-01
DA204UT106	DC001-01
DAN202U	DC001-03
DAN202UT106	DC001-03
DAP202U	DC001-02
DAP202UT106	DC001-02
EC10QS-04	DC007-01
EC10QS-06	DC007-01
EC10QS-06-TE12L	DC007-01
EC10QS04-TE12L5	DC007-01
EC11FS4-TE12L	DC007-01
EC11FS4-TE12L5	DC007-01
HZK6C	DC006-02
HZK9CLTR	DC006-02
HZM11NB3TL	DC001-04
KV1470	DC001-13
KV1470TL00	DC001-13
MA141WK	DC001-03
MA721WA-TX	DC001-02
MA721WK-(TX)	DC001-03

DIODE	Page or ID No.
MA740	2-7
MA740-TX	2-7
MBRS130LT3	DC013-01
RB051L-40TE25	DC007-01
RD10M-B2	DC001-04
RD10M-T1B	DC001-04
RD15M-B1	DC001-04
RD15M-T1B	DC001-04
RD2.0UH-T1	DC008-04
RD2.4M-B	DC001-04
RD2.4M-T1B	DC001-04
RD4.3UH-T1	DC008-04
RD5.6M-B2	DC001-04
RD5.6M-T1B	DC001-04
RD5.6UJN-T1	DC008-04
RD6.8M-T1B	DC001-04
RD8.2M-B	DC001-04
RD8.2M-T1B	DC001-04
SB007-03CP	DC001-06
SB007-03CP-TB	DC001-06
SB007T03Q	DC001-01
SB007T03Q-TL	DC001-01
SB01-05CP	DC001-06
SB01-05CP-TB	DC001-06
SB05-05CP	DC001-16
SB05-05CP-TB	DC001-16
SB05W05C	DC001-03
SB05W05C-TB	DC001-03
SR20-03P	DC002-03
SB20-03P-TD	DC002-03

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BR5305S	LR010-02	2SA1162G	TC001-01
CL-150HR-CD-T	LC001-01	2SA1314C-TE12L	TC002-01
CL-150PG-CD	LC001-01	2SA1462	TC001-01
CL-150PG-CD-T	LC001-01	2SA1462-T1Y33Y34	TC001-01
CL-150R-CD	LC001-01	2SA1610-T1Y33	TC001-01
CL-150R-CD-T	LC001-01	2SA1610-Y33	TC001-01
CL-150Y-CD	LC001-01	2SA1611-M5M6	TC001-01
CL-150Y-CD-T	LC001-01	2SA1611T1-M5M6	TC001-01
CL-170G-CD	LC010-01	2SA812-T1-M5M6	TC001-01
CL-170G-CD-T	LC010-01	2SB1115A-T1YQYP	TC002-01
CL-170UR-CD-T	LC010-01	2SB1115A-YQ	TC002-01
CL-200HR-C-TSL	LC008-01	2SB624-BV345	TC001-01
CL-200HR-C-TUL	LC008-01	2SB624T1-BV345	TC001-01
CL-200YG-C-TS	LC001-01	2SC1623-L5L6	TC001-02
GL3UR8	LR002-01	2SC1623-T1-L5L6	TC001-02
TLGE160	LR018-02	2SC2712	TC001-02
TLSU1002(TPX1,SONY)	LC004-01	2SC2712-GL-TE85L	TC001-02
TLYE160A	LR018-02	2SC2712-YG	TC001-02
		2SC2713-G	TC001-02
		2SC2713G-TE85L	TC001-02
		2SC2881(O,Y)TE12R	TC002-02
		2SC2982C-TE12L	TC002-02
		2SC3303-Y	TR035-01
		2SC3356-K	TC001-02
		2SC3356-T1K	TC001-02
		2SC3735-L-B35	TC001-02
		2SC3735-T1B-B35	TC001-02
		2SC4116-YG	TC001-02
		2SC4116YG-TE85L	TC001-02
		2SC4177-L5	TC001-02
		2SC4177-L6	TC001-02
		2SC4177-T1L5	TC001-02
		2SC4177-T1L5L6	TC001-02
		2SC4178-F13F14-T1	TC001-02
		2SC4178-F14	TC001-02
		2SC4207-YGRTE85L	TC008-11
		2SC4213-AB-IE85L	TC001-02
		2SD1614-T1XK	TC002-02
		2SD1615-T1GLGK	TC002-02
		2SD1615A-GP	TC002-02
		2SD1615A-T1GQGP	TC002-02
		2SD1624-T	TC002-02
		2SD1624-T-TD	TC002-02
		2SD596DV345	TC001-02
		2SD596T1-DV345	TC001-02
		2SJ187	TC002-06
		2SJ187-TD	TC002-06
		2SK2315TY	TC002-08
		2SK2315TYTR	TC002-08
		2SK711-BL	TC001-05
		2SK711-BL/V-TE85L	TC001-05
		2SK852-T1X2	TC001-05
		2SK852-X2	TC001-05
		2SK94-T1X1	TC001-05
		2SK94-T1X2X3X4	TC001-05
		2SK94-X2X3X4	TC001-05
		2SK94-X4	TC001-05
		DTA114EUA	TC001-04
		DTA114EUA-T106	TC001-04

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DTA144EKA-T146	TC001-04	74ACT244SJ	TC74HC244P
DTA144FUA-T106	TC001-04	74ACT244SJX	TC74HC244P
DTC113ZUA-T106	TC001-03	74LCX125MTCX	MC74HC125N
DTC114EU	TC001-03	74LCX245MTCX	TC74HC245P
DTC114EUA-T106	TC001-03	74LCX541MTCX	MC74HC541N
DTC114TKA-T146	TC001-03	74LCX574MTCX	TC74HC574P
DTC144EKA	TC001-03	74LVX3245QSCX	74LVX4245QSCX
DTC144EKA-T146	TC001-03	74VHCT04MTCX	TC74HC04P
DTC144EUA-T106	TC001-03	74VHCT08MTCX	TC74HC08P
		74VHCT574MTCX	TC74HC574P
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FMS2-T-148	TC008-07	AD828AR-REEL	LM358N
FMY3	TC008-05	AK4324-VF-E2	AK4324-VF-E2
FMY3-I-148	TC008-05	AK5352-VF-E2	AK5352-VF-E2
		AK6420AF-E2	AK6420HF
IMX1	TC005-01	AM26LS32ACNS	AM26LS32PC
IMX1T110	TC005-01	AM26LS32ACNSR	AM26LS32PC
		AM29F040B-120JC	AM29F040-90JC
MTD20N03HDL	TC010-01		
MTD20N03HDL-T4	TC010-01	BA6285FP-E2	BA6285FP
MTD20N06HDLT4	TC010-01	BA6286	BA6286N
		BA6444FP-E2	BA6444FP
SI4420DY-T1	TC012-06	BP-015	BP-015
SI4431DY-T1	TC012-04	BR93I C46F-F2	BR93I C46F
SI4435DY-T1-REVA	TC012-04	BX-3914	BX3914
SI4532DY-T1	TC012-03		
SI4953DY-T1	TC012-02	CLC505AJE	CLC505AJE
SI6542DQ-T1	TC013-03	CLC505AJE-T	CLC505AJE
SI9433DY-T1	TC012-04	CXA1370Q	CXA1370Q
SI9925DY-T1	TC012-01	CXA1450M-TH	CXA1450M
SI9936DY	TC012-01	CXA1451M	CXA1451M
SI9936DY-T1	TC012-01	CXA1451M-TH	CXA1451M
		CXA1479Q	CXA1479Q
		CXA3051R	CXA3051R
		CXA3053R	CXA3053R
		CXA3054R	CXA3054R
		CXB1341R	CXB1341R
		CXB1342R	CXB1342R
		CXD101-106Q	CXD101-106Q
		CXD104-114Q	CXD104-114Q
		CXD1095AR	CXD1095AR
		CXD1095BQ	CXD1095Q
		CXD1171M	CXD1171M
		CXD1171M-TH	CXD1171M
		CXD1175AM-TH	CXD1175P
		CXD206-104Q	CXD206-104Q
		CXD2202Q	CXD2202Q
		CXD2209Q	CXD2209Q
		CXD2221Q	CXD2221Q
		CXD2307R	CXD2307R
		CXD2310AR-T4	CXD2310R
		CXD303-101Q	CXD303-101Q
		CXD304-106Q	CXD304-106Q
		CXD8280AQ	CXD8280AQ
		CXD8281Q	CXD8281Q
		CXD8384Q	CXD8384Q
		CXD8385Q	CXD8385Q
		CXD8386AQ	CXD8386AQ
		CXD8395AQ	CXD8395Q
OTHERS	Page or ID No.		
GP1S33	MR010-08		
GP2S09-C	MA013-01		
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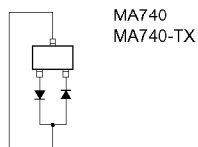
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CXD8804Q	CXD8804Q	M62352GP	M62352P
CXD8810BQ	CXD8810AQ	M62352GP-75ED	M62352P
CXD8811AQ	CXD8811AQ	MAX202CSE	MAX202CSE
CXD8817Q	CXD8817Q	MAX202CSE-T	MAX202CSE
CXD8818R	CXD8818R	MB3761PF-ER	MB3761PF
CXD8819AQ	CXD8819AQ	MB3793-42PNF	MB3793-42PNF
CXD8820AR	CXD8820AR	MB3793-42PNF-ER	MB3793-42PNF
CXD8821Q	CXD8821Q	MB8421-90LPFQ	MB8421-90LPFQ
CXD8859AQ	CXD8859AQ	MB88E346PFV-G-BND-ER	MB88E346PFV-G-BND-ER
CXD8935BQ	CXD8160Q	MB90096PF-G-139-BND-ER	MB90096PF-G-139-BND-ER
CXD8944Q	CXD8944Q	MBM29F400BA-90PF	MBM29F400BA-12PF
CXD8945BR	CXD8945BR	MC10H116M	MC10116L
CXD8946Q	CXD8946Q	MC10H116MEL	MC10116L
CXD8953Q	CXD8953Q	MC14053BDTR2	CD4053BE
CXD8973BR	CXD8973AR	MC14053BF	CD4053BE
CXD8974AR	CXD8974AR	MC14053BFEL	CD4053BE
CXD8979R	CXD8979R	MC14538BFEL	MC14538BCP
CXD8985AQ	CXD8985AQ	MC14577CF	MC14577AF
CXD8990R	CXD8990R	MC14577CFEL	MC14577AF
CXD8997R	CXD8997R	MC34182DR2	RC4558
CXD9001AR	CXD9001AR	MSM514400DL-60SJDR1	MSM514400ASJ-70
CXD9008Q	CXD8382AQ	MSM6524GS-KR1	MSM6524GS-VK
CXD9012AR	CXD9012R		
CXD9025R	CXD9025R	NJM1496M	MC1496P
CXK1203AR	CXK1203R	NJM1496M-TF2	MC1496P
CXK1203AR-T4	CXK1203R	NJM2041M-D	RC4558
CXK48324R	CXK48323R	NJM2041M-D(Te2)	RC4558
CXK48324R-T6	CXK48323R	NJM2119M(Te1)	LM358N
CXP80P624AQ-1-010	CXP80P624A	NJM2119M(Te2)	LM358N
		NJM2902V(Te2)	NJM2902N
DG201BDY-T1	2-7	NJM2903V(Te2)	UA393DC
DS3691MX	DS3691M	NJM2904V(Te2)	LM358N
DSPB56007FJ66	DSP56007FJ66	NJM3403AV	NJM3403AD
		NJM3403AV(Te2)	NJM3403AD
HD6415108RF10	HD6415108RVF5	NJM3404AV	LM358N
HD6433437WV09X	HD64F3434-F16	NJM3404AV(Te2)	LM358N
HD64F3048F-16	HD64F3048F	NJM360M	LM360N
HM6264ALFP-10T	CXK5864AP-10L	NJM360M-TE2	LM360N
HM628512BLTT-5SLZ	HM628512LP-7	NJM431U	NJM431U
		NJM431U-TE1	NJM431U
IDT71V016S20Y-TL	IDT71V016S20Y-TL	NJM4556AM	RC4558
IDT79R3041-20PF	IDT79R3041-20PF	NJM4556AM-A-TC2	RC4558
		NJM4558V-TE2	RC4558
L78M09T TL	L78M05T FA	NJM4560MD TE2	RC4558
LA7205M	LA7205M	NJM4565M-A	RC4558
LA7205M-TE-L	LA7205M	NJM4580E-D	RC4558
LC3564BM-70-TLM	CXK5864AP-10L	NJM4580E-D-TE2	RC4558
LC75821W	LC75821W	NJU7062M(Te2)	LM358N
LM1881M	LM1881N	NJU7064V(Te2)	NJU7024M
LM1881MX	LM1881N	NM24C16LEM8	2-7
LM2903PW-E05	UA393DC	NM24C16LEM8X	2-7
LT1227CS8	LT1227CS8		
LT1227CS8-E2	LT1227CS8	REF-03GSR	REF-03GS
LT1252CS8	LT1252CS8		
LT1252CS8-E2	LT1252CS8	S-8054HNM-CQ-T1	S-8054HN-CB
LTC1458CG-E2	LTC1458CG-E2	S-80727-SN-DQ-T1	S-80720SN-DH
		S-80745SL-A9	S-80727SL-AQ
M48T18-100MH1TR	M48T18-100MH1TR	S-80745SL-A9-T1	S-80727SL-AQ
M51957BFP	M51957BFP	S-80833ALUP-EAX-T2	S-8054ALR-LN
M5M5408ATP-55LL-EL	HM628512LP-7	S-80840ANUP-ED4-T2	S-8054HN-CB

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S-81230SGUP-DQB-T1	S-81225AG-RH	TC74VHC04FT(EL)	TC74HC04P
SDX1645-01	SDX1645-01	TC74VHC08Г(EL)	TC74HC08P
SC7S00F	TC7S00F	TC74VHC08FT(EL)	TC74HC08P
SN74HC00ANSR	2-7	TC74VHC11FT(EL)	TC74HC11P
SN74HC00APW-E05	TC74HC00P	TC74VHC123AFT(EL)	TC74HC123P
SN74HC00APW-E20	TC74HC00P	TC74VHC125FT(EL)	MC74HC125N
SN74HC04APW-E05	TC74HC04P	TC74VHC126FT(EL)	MC74HC126N
SN74HC04APW-E20	TC74HC04P	TC74VHC138FT(EL)	TC74HC138P
SN74HC08APW-E05	TC74HC08P	TC74VHC139FT(EL)	TC74HC139P
SN74HC08APW-E20	TC74HC08P	TC74VHC14ГT(EL)	TC74HC14P
SN74HC125APW-E05	MC74HC125N	TC74VHC157FT(EL)	TC74HC157P
SN74HC151APW-E20	TC74HC151P	TC74VHC163FT(EL)	TC74HC163P
SN74HC157ANS	TC74HC157P	TC74VHC164FT(EL)	TC74HC164P
SN74HC157ANSR	TC74HC157P	TC74VHC175FT(EL)	TC74HC175P
SN74HC174APW-E05	TC74HC174P	TC74VHC21FT(EL)	TC74HC21P
SN74HC193ANS	TC74HC193P	TC74VHC221AFT(EL)	TC74HC221P
SN74HC193ANS-E05	TC74HC193P	TC74VHC244F	TC74HC244P
SN74HC244APW-E05	TC74HC244P	TC74VHC244F(EL)	TC74HC244P
SN74HC245APWR	TC74HC245P	TC74VHC244FT(EL)	TC74HC244P
SN74HC32APW-E05	TC74HC32P	TC74VHC245FT(EL)	TC74HC245P
SN74HC32APW-E20	TC74HC32P	TC74VHC32F	TC74HC32P
SN74HC574APW-E05	TC74HC574P	TC74VHC32F(EL)	TC74HC32P
SN74HC574APW-E20	TC74HC574P	TC74VHC32FT(EL)	TC74HC32P
SN74HC74APW-E05	TC74HC74P	TC74VHC541FT(EL)	MC74HC541N
SN74HC86APWR	TC74HC86P	TC74VHC573FT(EL)	TC74HC573F
SN74HCT244APW-E05	TC74HC244P	TC74VHC574FT(EL)	TC74HC574P
SN74HCT245ANSR	TC74HC245P	TC74VHC74FT(EL)	TC74HC74P
SN74HCT245APW-E05	TC74HC245P	TC74VHC86FT(EL)	TC74HC86P
SN74HCT541APWR	MC74HC541N	TC74VHCT244AFT(EL)	TC74HC244P
SN74LS221NS	SN74221N	TC74VHCT245AFT(EL)	TC74HC245P
SN74LS221NSR	SN74221N	TC74VHCT541AFT(EL)	MC74HC541N
SN755721DGG	2-8	TC7S00F(TE85R)	TC7S00F
SN755731DGG	2-8	TC7S02FU(TE85R)	TC4S01F
SSM-2142P	SSM-2142P	TC7S04FU(TE85R)	TC7S04F
SSM2018TS-REEL	2-8	TC7S08F	TC7S08F
		TC7S08F(TE85R)	TC7S08F
TC4053BFT(EL,N)	CD4053BE	TC7S08FU(TE85R)	TC7S08F
TC4S66F	SC14S66F	TC7S14FU(TE85R)	TC7S14FU
TC4S66F(TE85R)	SC14S66F	TC7S32FU(TE85R)	TC7S32F
TC4S71F	TC7S32F	TC7S66FU	SC14S66F
TC4S71F(TE85R)	TC7S32F	TC7S66FU(TE85R)	SC14S66F
TC4W53Г	TC4W53FU	TC7S86FU	TC7S86FU
TC4W53F(TE12R)	TC4W53FU	TC7S86FU(TE85R)	TC7S86FU
TC4W53FU	TC4W53FU	TC7SET08FU(TE85R)	TC7S08F
TC4W53FU(TE12R)	TC4W53FU	TC7SH00FU-TE85R	TC7S00F
TC4W66FU	TC4W66F	TC7SH02FU	TC4S01F
TC4W66FU(TE12R)	TC4W66F	TC7SH02FU-TE85R	TC4S01F
TC4W66FU(TE12R)	TC4W66F	TC7SH04F(TE85R)	TC7S04F
TC74HC123AF	TC74HC123P	TC7SH04FU	TC7S04F
TC74HC123AF(EL)	TC74HC123P	TC7SH08FU-TE85R	TC7S08F
TC74HC4051AFT(EL)	MC74HC4051N	TC7SH32FU-TE85R	TC7S32F
TC74HC4052AFT(EL)	MC74HC4052N	TC7SH86FU-TE85R	TC7S86FU
TC74HC4053AFT(EL)	MC74HC4053F	TC7W00FU	TC7W00F
TC74HC4066AFT(EL)	MC74HC4066N	TC7W00FU(TE12R)	TC7W00F
TC74HCT04AF	TC74HC04P	TC7W02F	TC7W02F
TC74HCT04AF(EL)	TC74HC04P	TC7W02FU(TE12R)	TC7W02F
TC74VHC00F	TC74HC00P	TC7W04FU	TC7W04F
TC74VHC00F(EL)	TC74HC00P	TC7W04FU(TE12R)	TC7W04F
TC74VHC00FT(EL)	TC74HC00P	TC7W08FU	TC7W08F
IC/4VHC02F I(EL)	IC/4HC02P	IC/W08FU(TE12R)	IC/W08F

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IC	Page or ID No.
TC7W14FU(TE12R)	TC7W14FU
TC7W32FU	TC7W32FU
TC7W32FU(TE12R)	TC7W32FU
TC7W53FU(TE12R)	TC4W53FU
TC7W74FU	TC7W74FU
TC7W74FU(TE12R)	TC7W74FU
TC7WH241FU(TE12R)	TC7W241FU
TC7WH74FU(TE12R)	TC7W74FU
TC7WH74FU(TR12R)	TC7W74FU
TL062CPW	RC4558
TL062CPW-E05	RC4558
TL082CPW-E05	RC4558
TL084CPWR	TL084CN
TL1451ACPW-E05	TL1451CNS
TL1591CP	2-7
TL431CPK	NJM431U
TL5001CD	TL5001
TL5001CDR	TL5001
TLC272CPW-E05	TLC272CP
TLC2932IPW	TLC2932IPW
TLC2932IPW-E05	TLC2932IPW
TLC2932IPW-E20	TLC2932IPW
TLC549IPS	TLC548
TLC549IPSR	TLC548
UPC1663G	UPC1663C
UPC1663G-E2	UPC1663C
UPC4570G2	RC4558
UPC4570G2-E2	RC4558
UPD42280GU-30-E2	UPD42280GU-30
UPD4516161AG5-A10B-9NF	UPD4516161G5-A12-7JF
UPD4516821AG5-A10B-9NF	UPD4516821G5-A12-7JF
UPD4702G	UPD4702G
UPD485506G5-25-7JF-E2	UPD485506G5-25-7JF
UPD71055GB-10-3B4	UPD71055G
UPD72001GC-11-3B6	UPD72001GC-3B6
UPD75106GF-J20-3BE	UPD75106G
UPD78011BGC-608-AB8	UPD78011GC-533-AB8
UPD78014FGC-632-AB8	UPD78011GC-533-AB8
UPD78014FGC-639-AB8	UPD78011GC-533-AB8
X24164SIT1	X24164SI
XRD7523AID-JTR	MP7523

DIODE

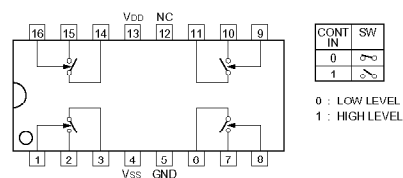


IC

DG201BDY-T1 (SILICONIX)

ANALOG SWITCH

—TOP VIEW—

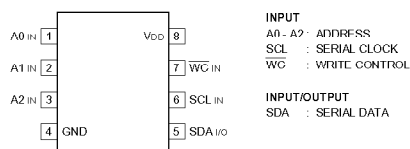


NM24C16LEM8 (NS)

NM24C16LEM8X

SERIAL EEPROM

SERIAL EEP
—TOP VIEW—



NOTE :

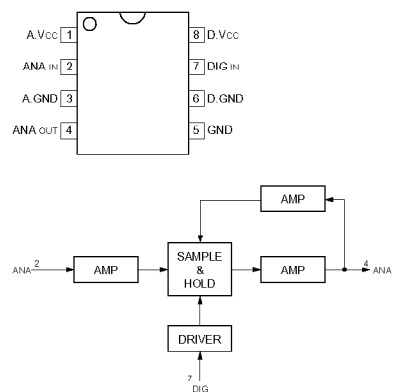
TYPE	MEMORY	PIN 7
NM24C16	16 K	NC
X24C02	2 K	WC
X24C04	4 K	TEST
X24C08	8 K	TEST

TL1591CP (TI)

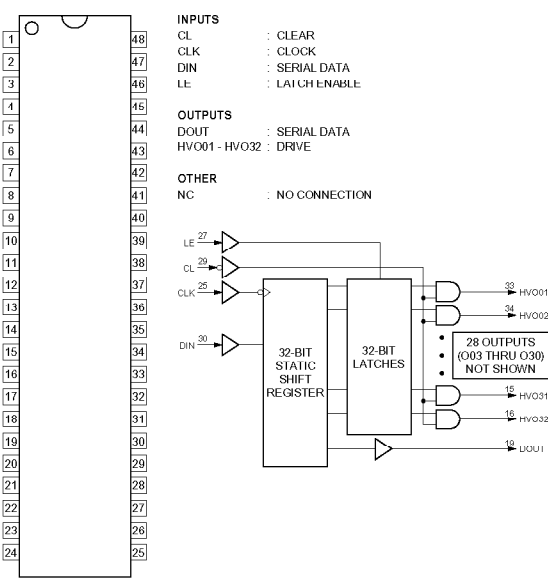
SN74HC00ANSR

SAMPLE AND HOLD

—TOP VIEW—

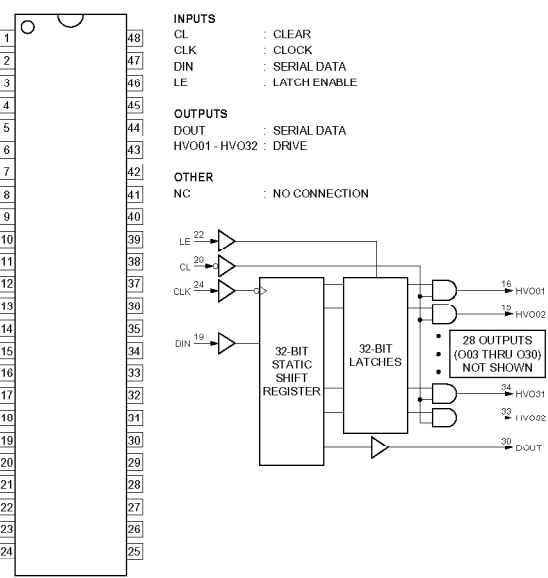


SN755721DGG (TI)
32-BIT FL DISPLAY DRIVER
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	HV023	13	O	HV029	25	I	CLK	37	O	HV005
2	O	HV022	14	O	HV030	26	—	NC	38	O	HV006
3	O	HV021	15	O	HV031	27	I	LE	39	O	HV007
4	O	HV020	16	O	HV032	28	—	NC	40	O	HV008
5	O	HV019	17	—	GND	29	I	CL	41	O	HV009
6	O	HV018	18	—	Vcc2	30	I	DIN	42	O	HV010
7	O	HV017	19	O	DOUT	31	—	Vcc2	43	O	HV016
8	O	HV024	20	—	NC	32	—	GND	44	O	HV015
9	O	HV025	21	—	Vcc1	33	O	HV001	45	O	HV014
10	O	HV026	22	—	NC	34	O	HV002	46	O	HV013
11	O	HV027	23	—	GND	35	O	HV003	47	O	HV012
12	O	HV028	24	—	NC	36	O	HV004	48	O	HV011

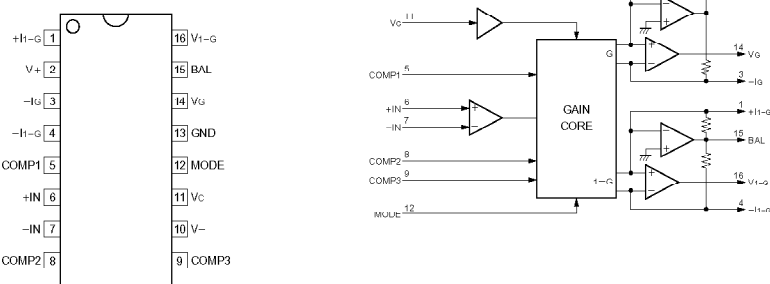
SN755731DGG (TI)
32-BIT FL DISPLAY DRIVER
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	HV011	13	O	HV004	25	—	NC	37	O	HV028
2	O	HV012	14	O	HV003	26	—	GND	38	O	HV027
3	O	HV013	15	O	HV002	27	—	NC	39	O	HV026
4	O	HV014	16	O	HV001	28	—	Vcc1	40	O	HV025
5	O	HV015	17	—	GND	29	—	NC	41	O	HV024
6	O	HV016	18	—	Vcc2	30	O	DOUT	42	O	HV017
7	O	HV010	19	I	DIN	31	—	Vcc2	43	O	HV018
8	O	HV009	20	I	CL	32	—	GND	44	O	HV019
9	O	HV008	21	—	NC	33	O	HV032	45	O	HV020
10	O	HV007	22	I	LE	34	O	HV031	46	O	HV021
11	O	HV006	23	—	NC	35	O	HV030	47	O	HV022
12	O	HV005	24	I	CLK	36	O	HV029	48	O	HV023

SSM2018TS-REEL (AD)

VOLTAGE CONTROLLED AMPLIFIER
—TOP VIEW—



- INPUTS**
- IN : NEGATIVE SIGNAL
 - +IN : POSITIVE SIGNAL
 - BAL : BALANCE CONTROL
 - COMP1 - COMP3 : COMPENSATION
 - MODE : OPERATION MODE SELECT
 - VC : OPERATIONAL VOLTAGE CONTROL
- OUTPUTS**
- I+G, -I-G : NEGATIVE CURRENT SIGNAL
 - +I+G, +I-G : POSITIVE CURRENT SIGNAL
 - V1-G, V1-G : VOLTAGE OUTPUT FOR FEEDBACK

Section 3

Circuit Description and Block Diagrams

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*BRR: Bit Rate Reduction **ECC: Error Correction Coding ***TBC: Time Base Corrector

Circuit Description

(1) Video Signal Processing Block (CP-354, DEC-97, SDI-23, VPR-34, and TG-191 Boards)

Recording system

The analog composite video signal input from the external equipment to the VIDEO IN connector (on the CP-354 board) is converted from analog to digital on the DEC-97 board. After that, the signal is converted into a digital component signal using a composite decoder and sent to the input time base corrector (TBC) on the SDI-23 board.

The SDI signal input from the external equipment to the SDI IN connector is converted from serial to parallel on the SDI-23 board and separated into a video signal and audio signal using a D1 decoder. One of the SDI video signal and the analog composite video signal described above is selected using an input TBC. The setup component of the video signal output from the input TBC is eliminated (for an NTSC system only), and VITC signal of the video signal is read and then added to the video signal. The signal is then sent to the DPR-87 board as REC data. It is also sent to the VPR-34 board as EE data.

Playback system

The SX PB video signal sent from the DPR-87 board is processed by the JOG processing block on the VPR-34 board and sent to the video processor IC. In the video processor IC, one of the SX PB video signal, the analog Betacam PB video signal sent from the DM-114/114P board, and the EE video signal sent from the SDI-23 board is selected, and selected signal is video processed (gain adjustment, setup adjustment, and blanking addition). The digital component video signal output from the video processor IC branches to two paths using a composite encoder IC. One is encoded to a digital composite video signal, and the other is directly sent to the SDI-23 board.

The digital composite video signal output from the composite encoder IC is converted from digital to analog, and output from the connector panel (CP-354 board).

The output signal branches to two paths. Characters can be superimposed on VIDEO OUTPUT2.

The digital component video signal sent to the SDI-23 board is multiplexed with an audio signal, converted from parallel to serial, then output from the connector panel.

Sync system

A sync signal is generated on the TG-191 board. The signal input from the REF VIDEO IN or VIDEO IN connector is sync-separated to produce a sync signal (sync or burst). For SDI input locking, moreover, a sync signal is generated on the SDI-23 board by the signal input from the SDI IN connector. Based on the generated sync signal, a REF signal and various timing signals (CF, GOP, FRAME, HD, VD, and AUDIO ID signals) for the unit are generated on the TG-191 board. In addition, the video and audio clock signals synchronized with this sync signal are generated and sent to each board together with timing signals.

(2) Audio Signal Processing Block (CP-344, AU-249, SDI-23, APR-27A, and HP-100 Boards)

The analog audio signal input from the external equipment to the AUDIO IN connector (on the CP-344 board) is switched in an input level on the CP-344 board and controlled in a level.

The resultant signal is sent to the AU-249 board. On the CP-344 board, phantom power is also supplied. An automatic gain control (AGC) is applied to the audio signal sent to the AU-249 board. This audio signal and the Dolby noise-reduced analog Betacam PB audio signal are switched and emphasized. The resultant signal is converted from analog to digital and sent to the APR-27A board. For the SDI signal input from the external equipment to the SDI In connector, an audio signal and various control signals (mute flag, Z flag, and C bit signals) are extracted on the SDI-23 board and sent to the APR-27A board. On the APR-27A board, five-field sequence processing (for NTSC only) and JOG processing are performed for the SX PB audio signal sent from the DPR-87 board.

This SX PB audio signal, the analog input signal sent from the AU-249 board, and the SDI input signal sent from the SDI-23 board are switched, swap in channels, mixed in channels, and muted. These signals are then sent to the boards below.

REC signal: To the DPR-87 board

LINE and MONITOR output signals: To the AU-249 board

SDI output signal: To the SDI-23 board

The LINE output signal sent to the AU-249 board is converted from digital to analog and de-emphasized. The signal is then output through the output amplifier on the CP-344 board from the connector panel.

The MONITOR output signal sent to the AU-249 board is converted from digital to analog and de-emphasized. The output signal is then gain-controlled on the HP-100 board and output through the output amplifier on the CP-344 board from the connector panel.

The MONITOR output signal can also be monitored using headphones or speaker.

The channel type of the signal to be output to the LINE and MONITOR output connectors can be set using a sub menu.

The output audio signal sent to the SDI-23 board is multiplexed with a video signal using an SDI encoder, converted from parallel to serial, and output from the connector panel.

(3) Digital Signal Processing Block (DPR-87 Board) and RF Block (EQ-72 Board and Drum Assembly)

Recording system

One of the external input video signal (SDI/composite) and SX PB video signal sent from the SDI-23 board is selected using the video data selector on the DPR-87 board. The selected signal is passed through a pre-filter and SX-encoded

using a bit rate reduction encoder to compress the data rate to approximately 1/10.

The compressed video signal and the REC audio signal sent from the APR-27A board are adjusted in delay, and multiplexed using an ECC encoder. An error correction code is added after that. In this stage, the system data, including NT (non-tracking) control information, as well as outer and inner ECC codes is also added and sent to the EQ-72 board.

The REC signal sent from the DPR-87 board is level-modulated on the EQ-72 board according to the REC current value and sent through a rotary transformer to the drum as REC data. Moreover, the multiplexed select control signals of each head are sent to the drum.

The REC data sent to the drum is recorded on the tape. At the same time, the switching timing for head and REC current value are controlled by an MPX decoder,

Playback system

The PB output signals of each head are amplified using a pre-amplifier. After that, the PB RF output signals of each head are multiplexed based on the decoded head select control signal and sent through a rotary transformer to the EQ-72 board.

One of the two-channel PB RF signals sent to the EQ-72 board is sent through an amplifier to the DM-114/114P board as an analog Betacam PB signal. In the other channel, waveform equalization, viterbi decoding, and inner error correction are performed, and the PB RF signal is sent to the DPR-87 board as a Betacam SX PB signal.

The Betacam SX PB signal sent from the EQ-72 board is non-tracked and outer-error corrected on the DPR-87 board. The signal is then separated into a video signal and audio signal. The video signal also branches to two paths.

One is sent to the video data selector on the DPR-87 board as a REC signal during insert editing. The other is sent to the VPR-34 board and processed by a video jog processing block. Like the video signal, the audio signal is also sent to the APR-27A board and processed by an audio jog processing block.

(4) Analog Betacam Playback Block (DM-114/114P and PA-218 Boards)

An analog Betacam PB video signal is processed on the DM-114 board. The RF signals (Y and C signals) sent from the EQ-72 board are waveform-equalized and FM-demodulated, then converted from analog to digital. The converted signals are then time-base corrected using field memory for various processings (dropout compensation, edge noise reduction, etc.), Y/C signal multiplexing, and setup elimination (for NTSC only) and sent to the VPR-34 board. A longitudinal analog Betacam audio signal is processed on the PA-218 board. The PB signal sent from the audio head is waveform-equalized and sent to the AU-249 board.

(5) System Control Block and Servo Block (SY-259B, SY-260, and SV-194A Boards)

This unit contains two CPUs (SY1 CPU and SY2 CPU) for system control and one CPU (Servo CPU) for servo control.

SY1 CPU (IC106 on the SY-259B board) uses RISC CPU, and the operation clock is 20 MHz.

The SY1 CPU controls the operation below.

- Switch and LED control on the front panel
- Receive and transmit the signals with external control equipment
- FL display panel
- Superimposition of characters on the monitor output and FL display panel

Like SY1 CPU, SY2 CPU (IC108 on the SY-260 board) also uses RISC CPU, and the operation clock is 20 MHz.

The SY2 CPU controls the operation below.

- Control of each main board
- Self diagnosis of each main board
- LTC signal read and write

Servo CPU uses a 16-bit CPU, and the operation clock is 10 MHz.

The servo CPU controls the operation below.

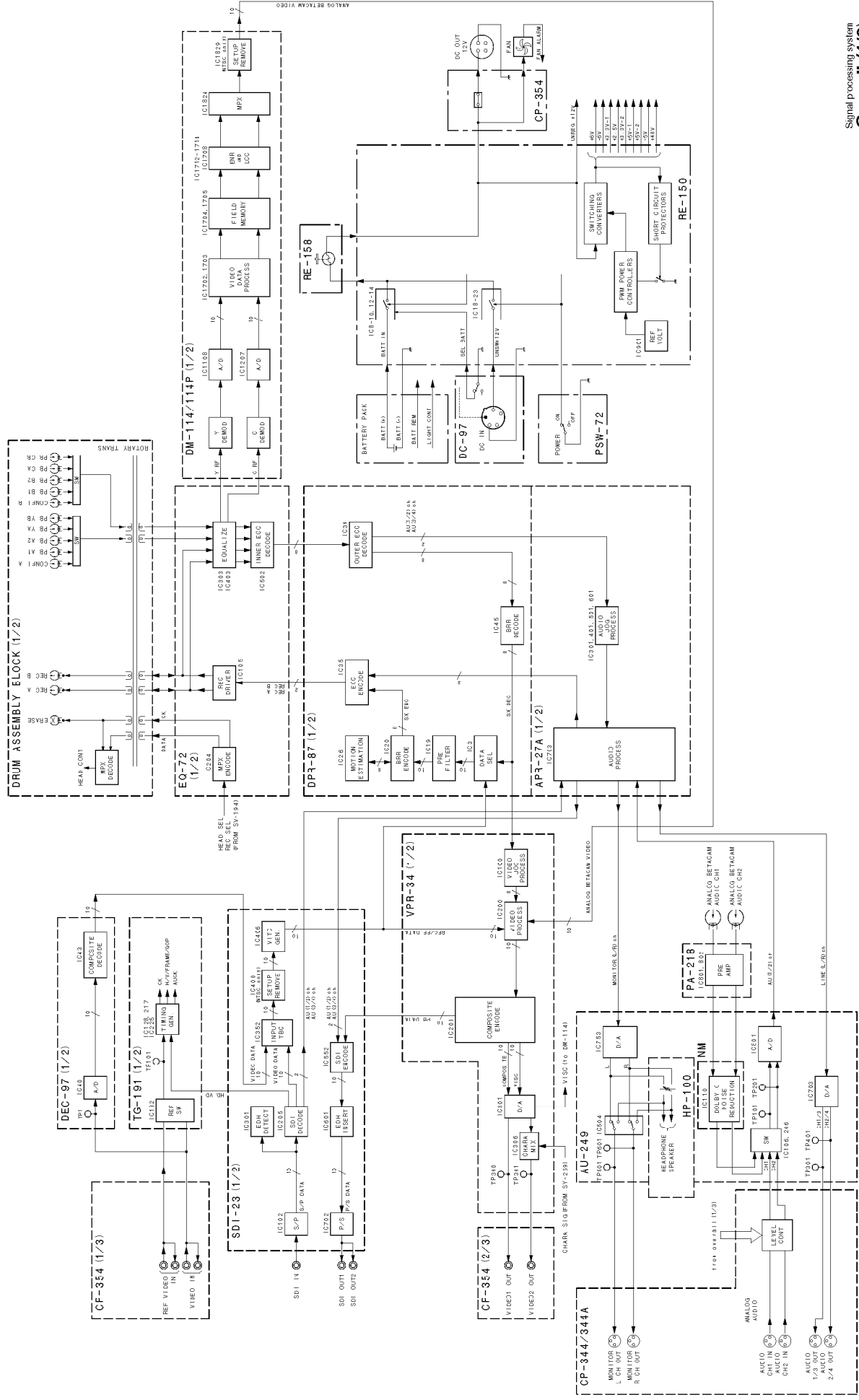
- Control of drum and motors
- Detection of sensor and FG/PG

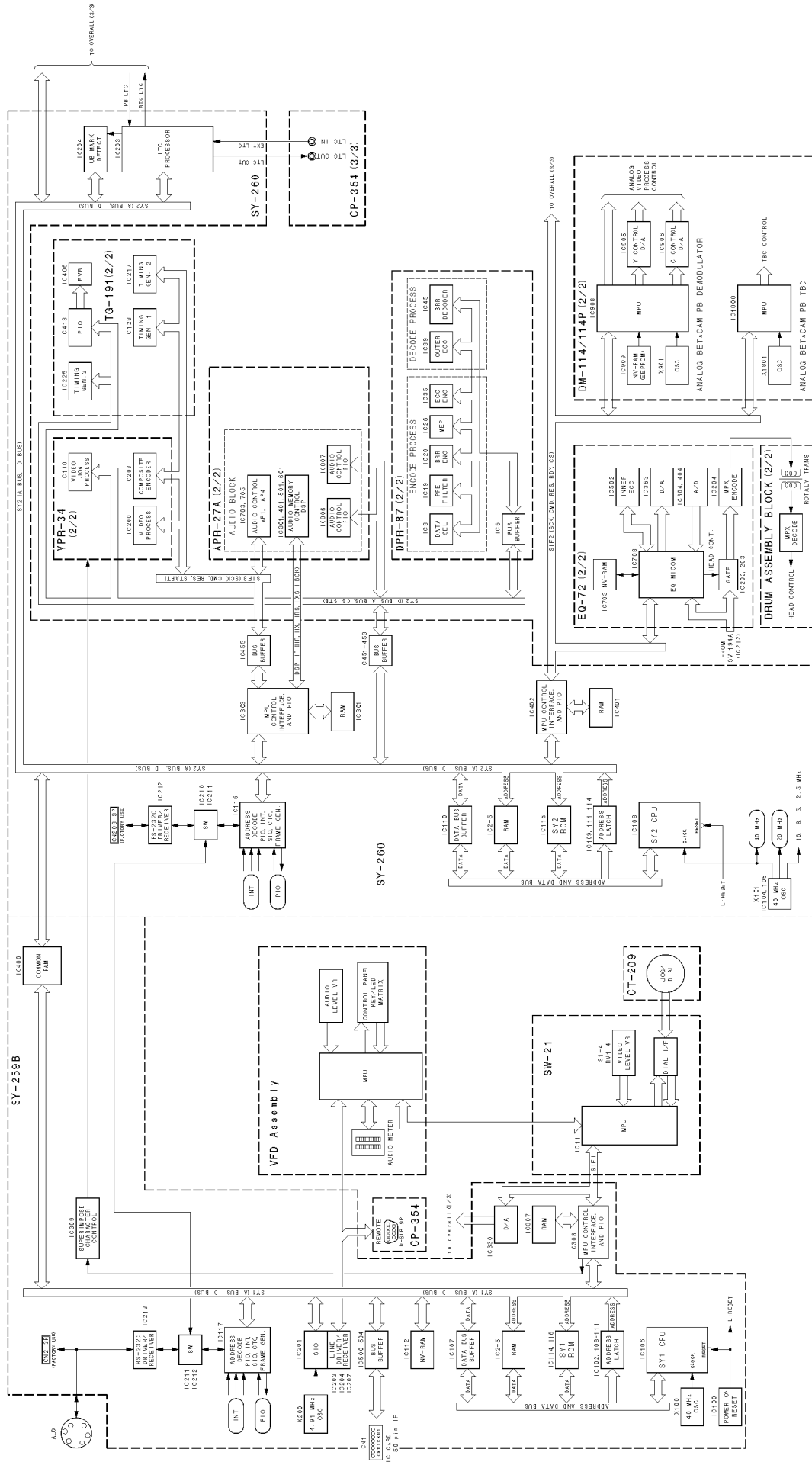
The communication between SY1 CPU and SY2 CPU is carried out via the dual port RAM (IC400) on the SY-259B board.

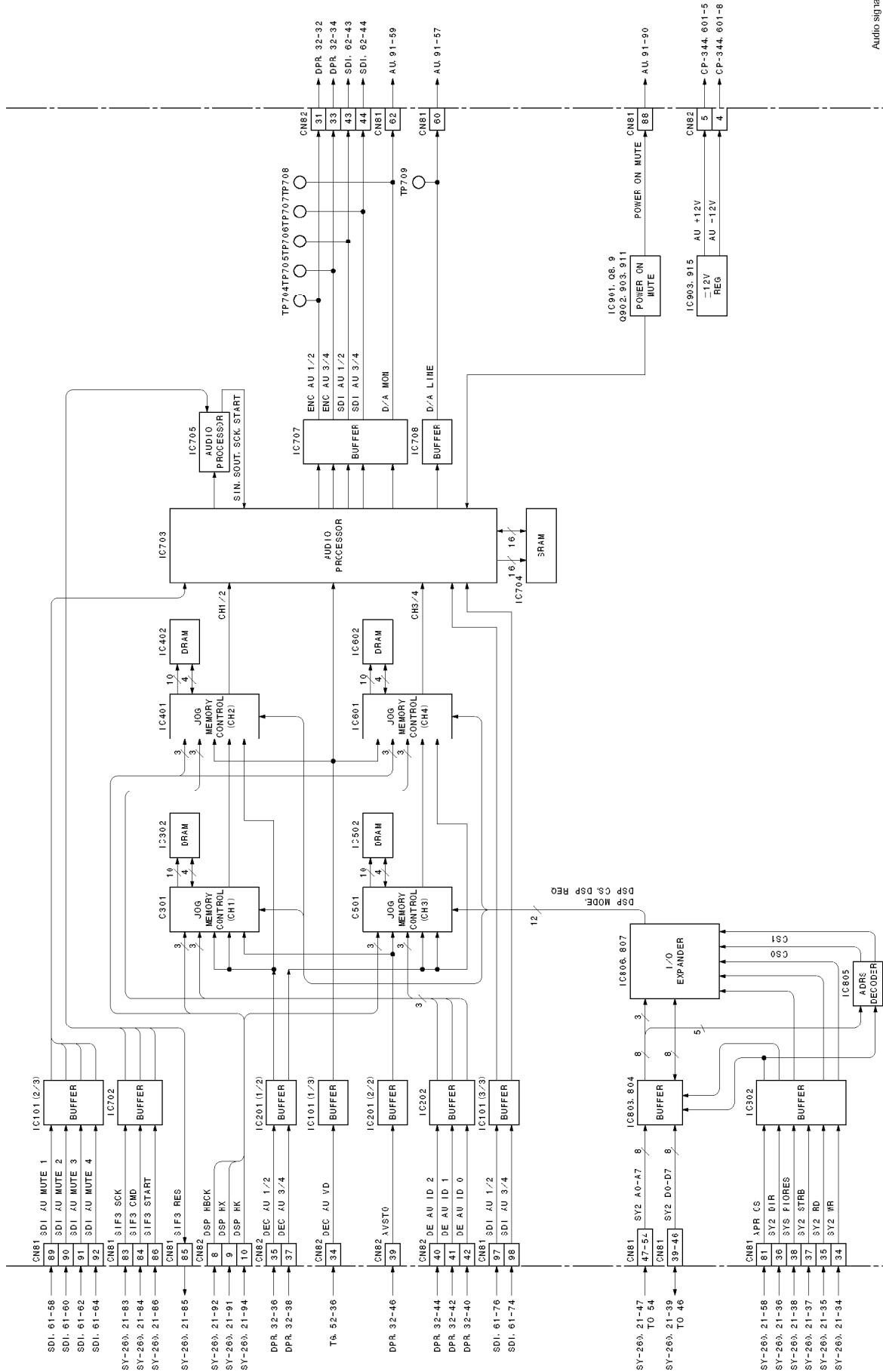
The communication between SY2 CPU and servo CPU is carried out via the dual port RAM (IC300) on the SV-194A board.

(6) Power Supply Block (RE-150, RE-158, and PSW-72 Boards)

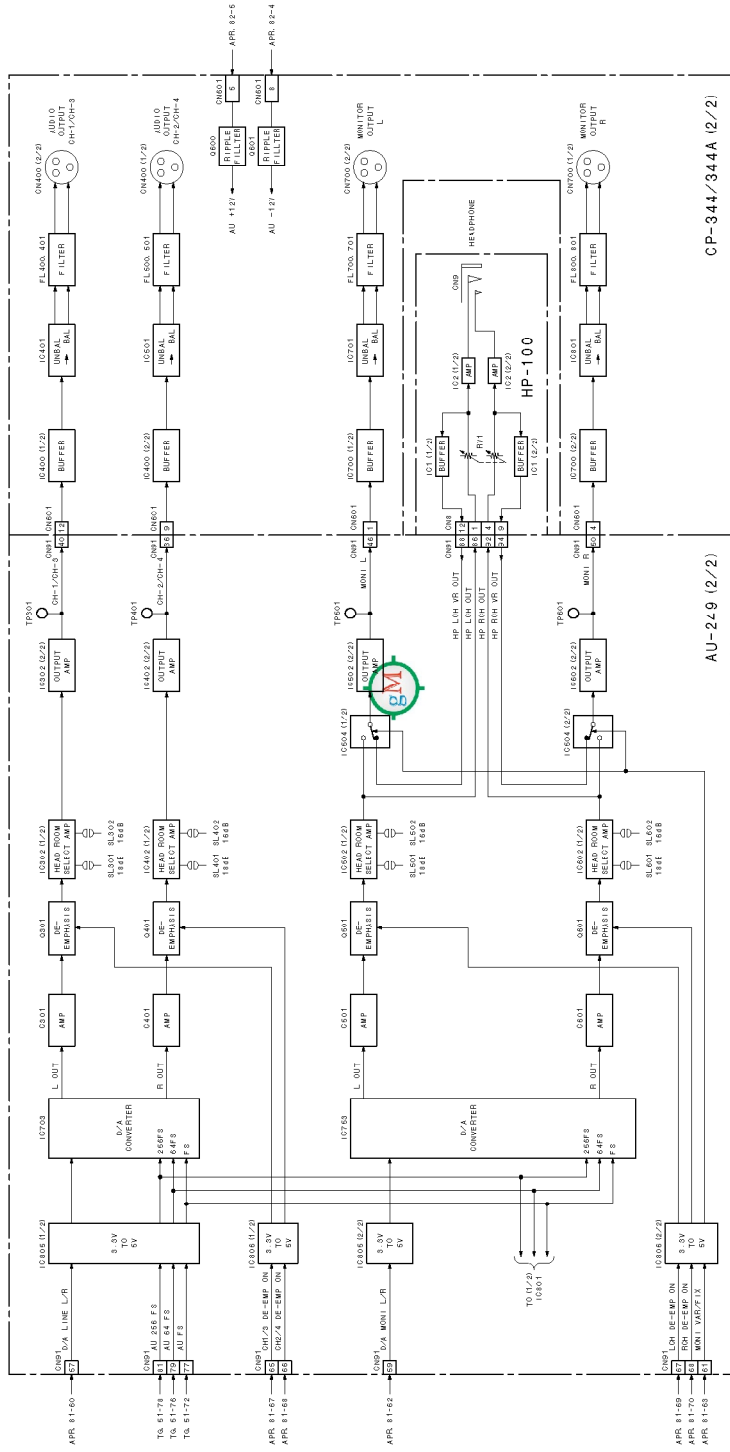
The +12 V DC voltage input from the battery or DC IN connector is sent through the breaker on the RE-158 board to the RE-150 board. The voltage is then turned on and off using the power switch on the PSW-72 board and sent to each board as an UNREG +12 V. Moreover, various DC voltages are generated using the DC-DC converter based on a synchronous PWM switching regulator and supplied to each board.



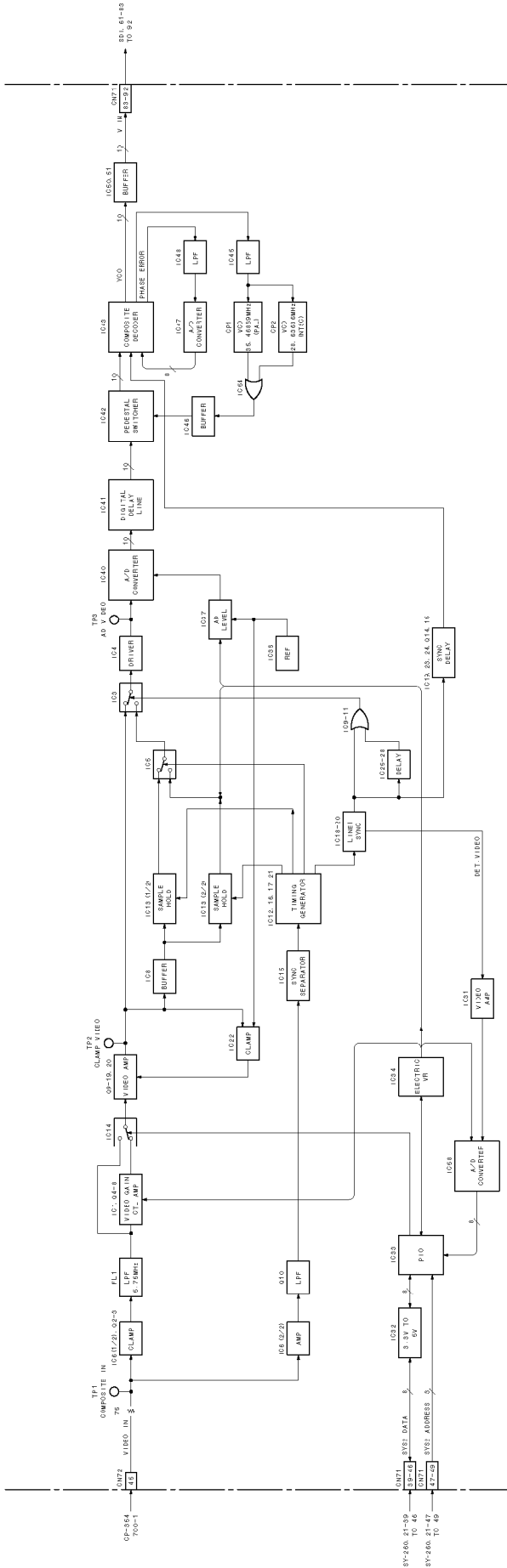


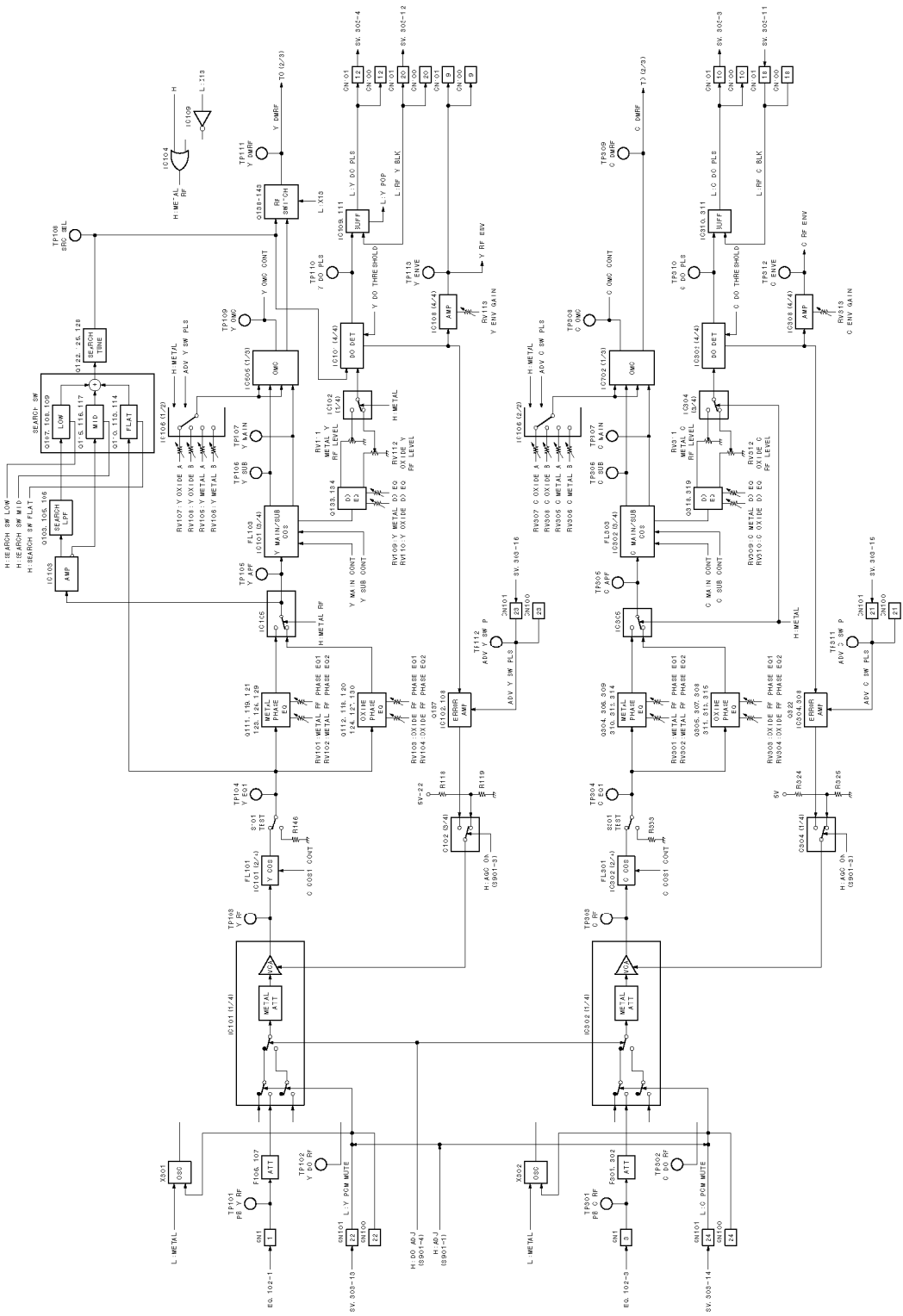


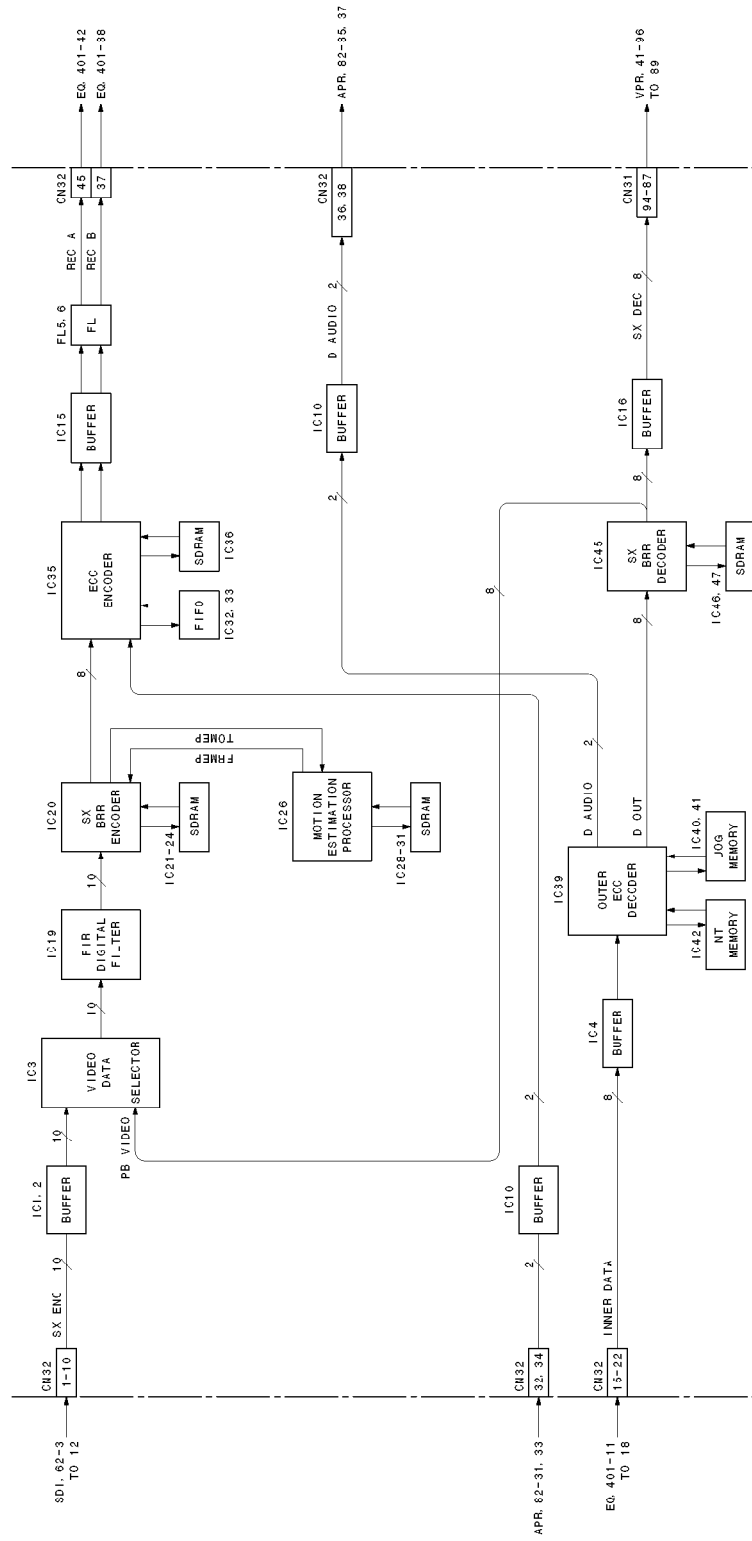
Audio signal processor
APR-27A
LOT NO. 305



Audio A-D (Analog CH1/2 input), Audio E-A (Analog CH1/2 output)
 Audio D-A (Monitor output)
AU-249 (2/2)
 LOT NO. 95-

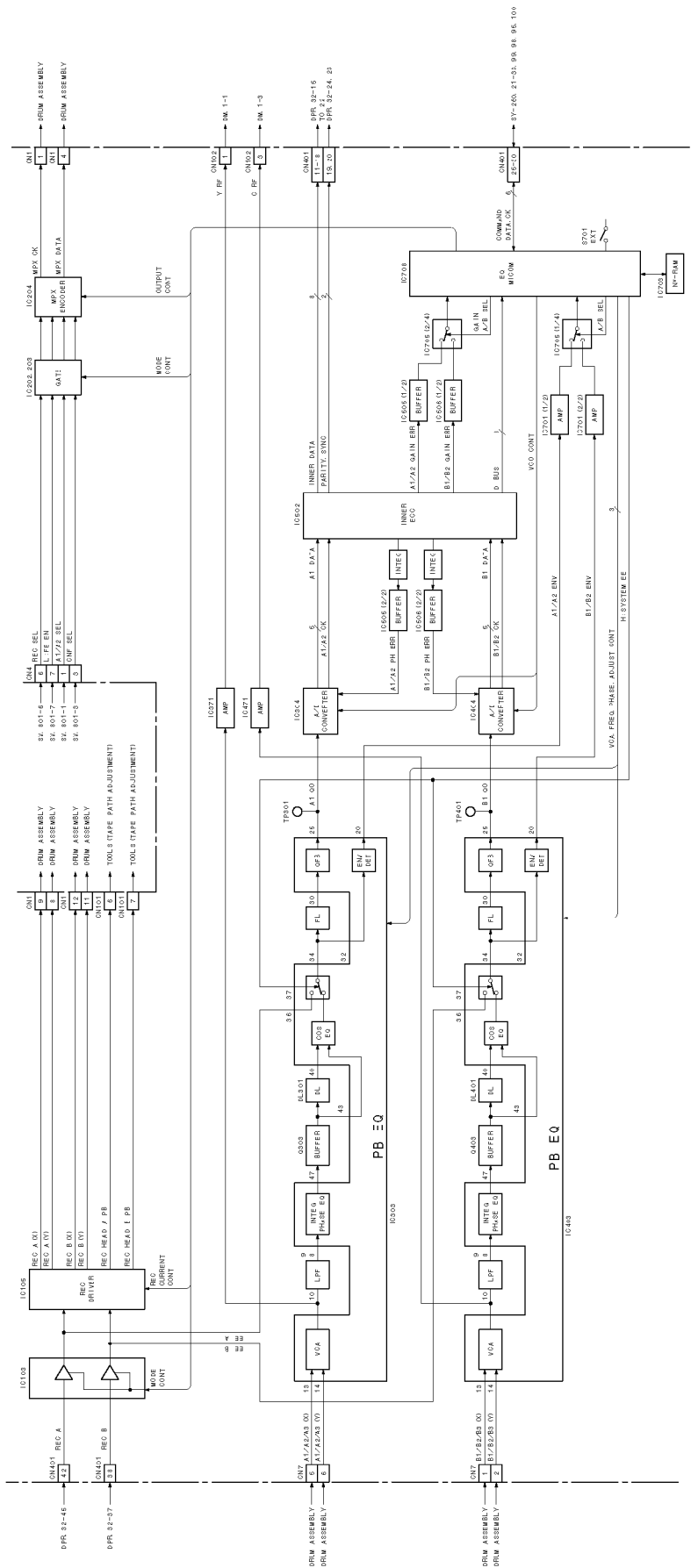






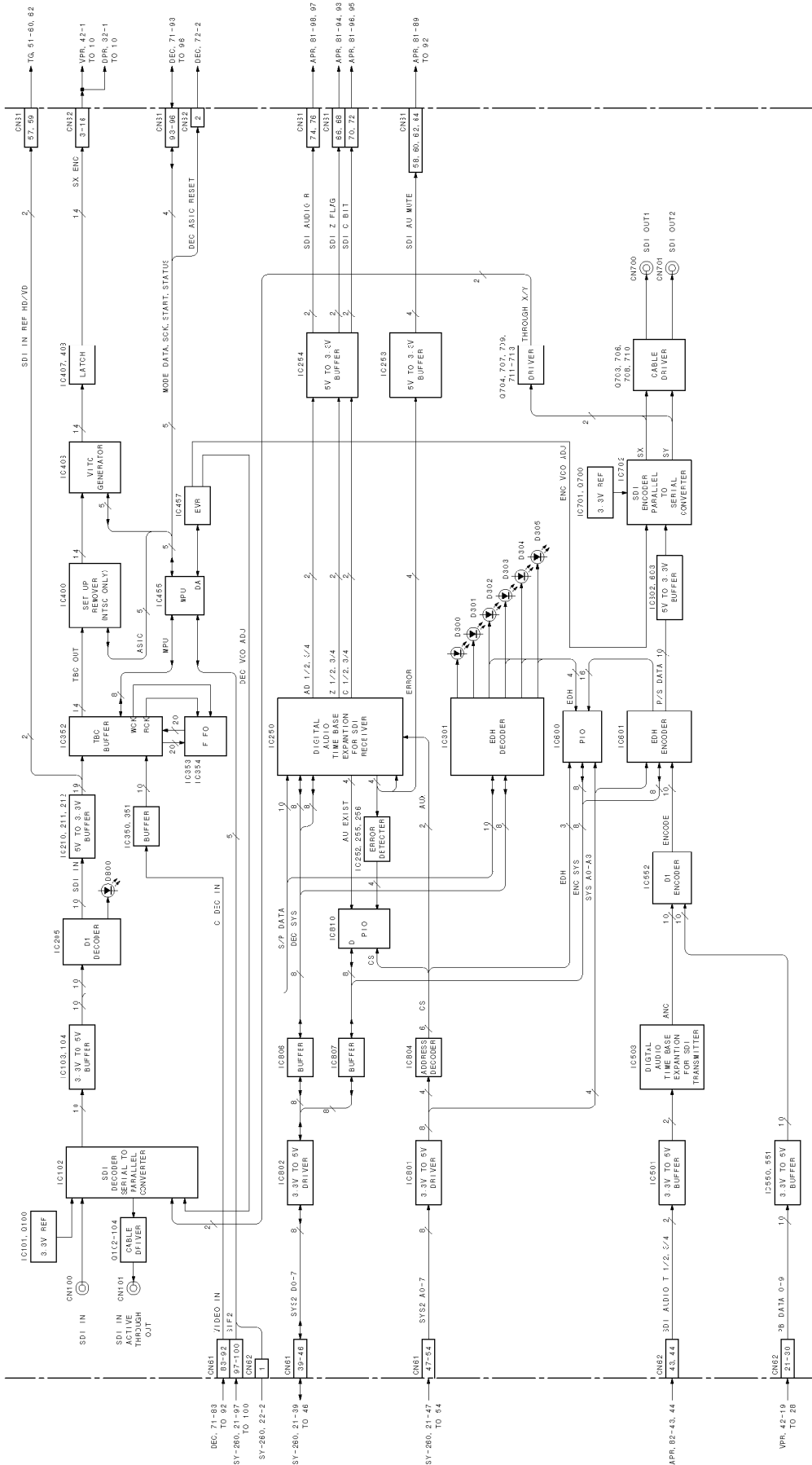
Digital data processor
Video BRR encoder/decoder
ECC encoder/decoder (Outer error correction)
DPR-87
LOT NO. 905

Block diagram EQ-72 EQ-72 Block diagram

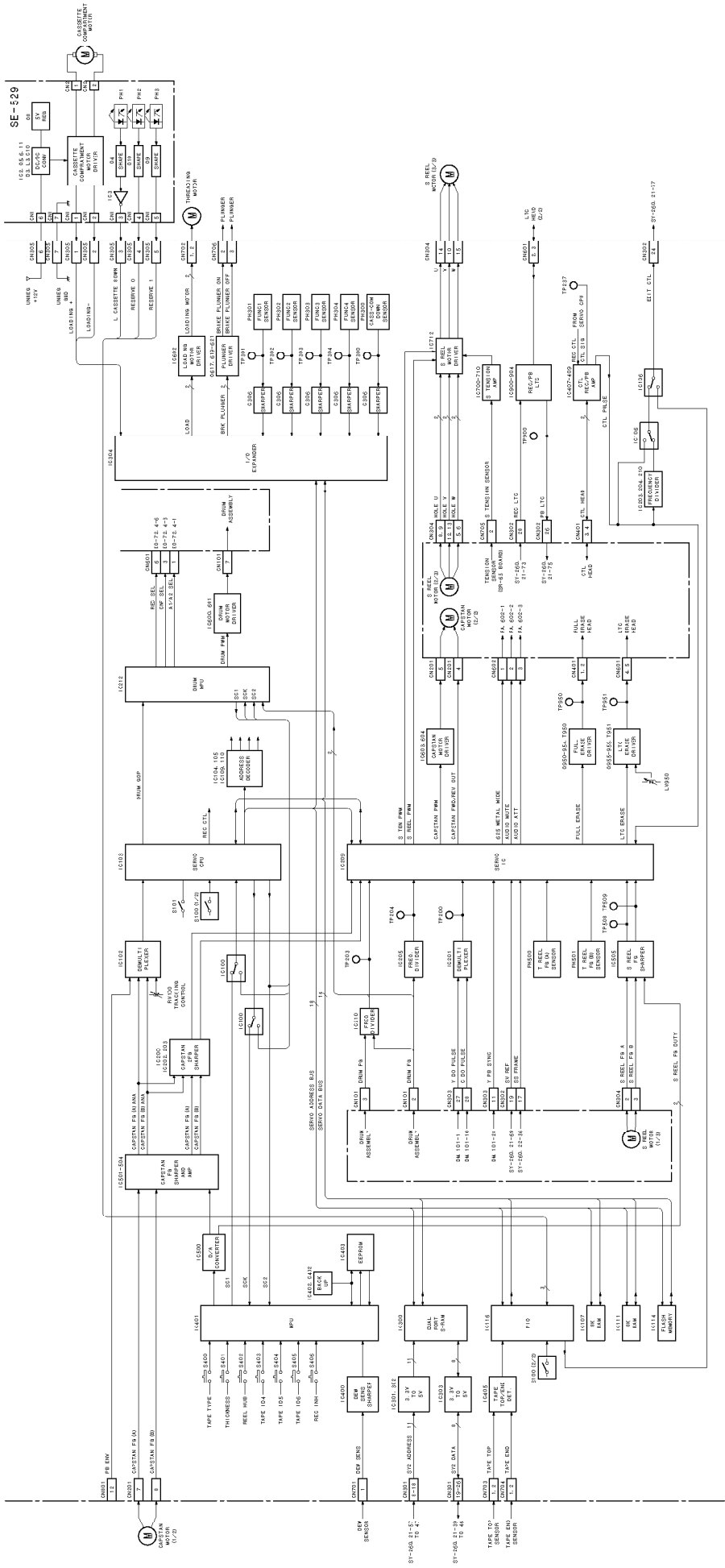


RF equalizer
REC current control, PB EQ,
Analog Beamam PB buffer timer error correction
EQ-72
LOT NO. 965-



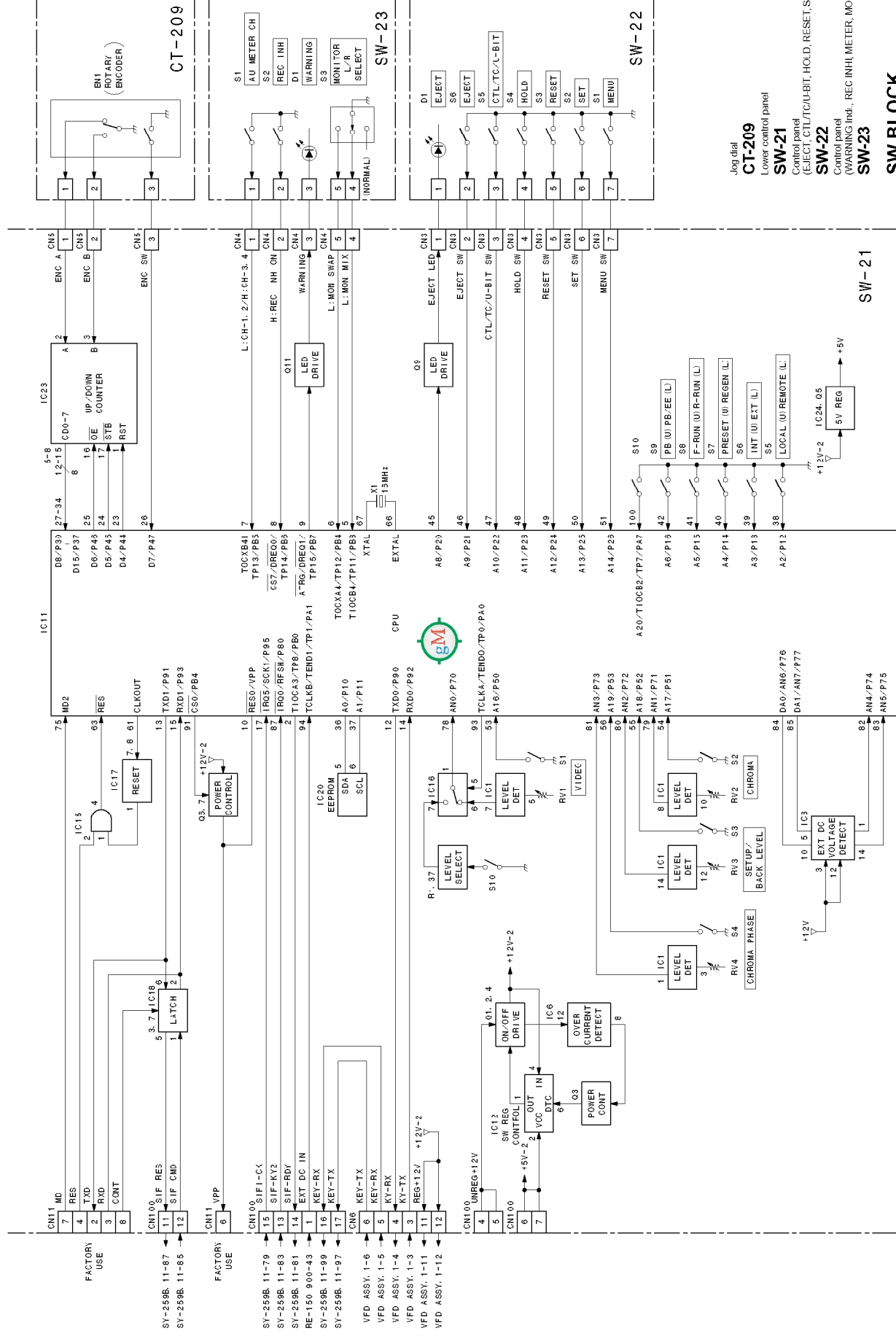


Block diagram SV-194A SV-194A Block diagram



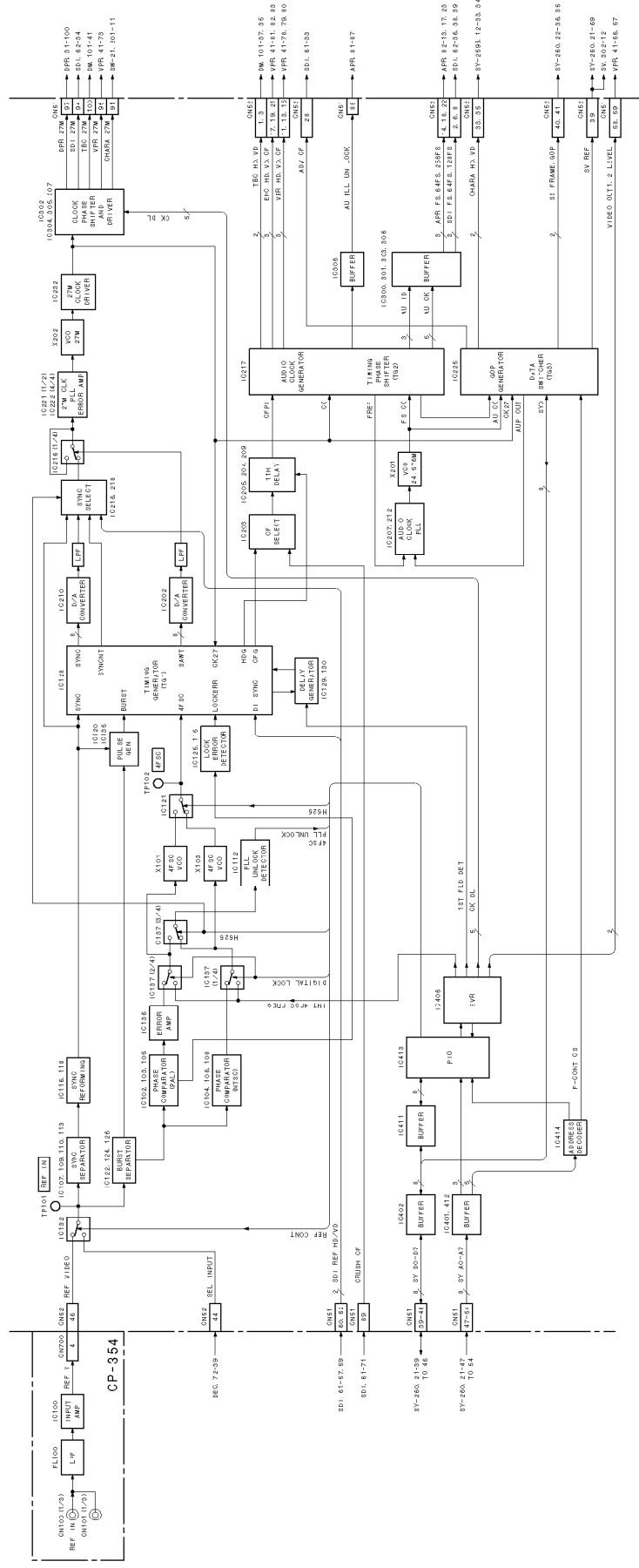
Servo control, Motor driver, Sensors
SV-194A
LOT NO 905-

Block diagram SW BLOCK SW BLOCK Block diagram

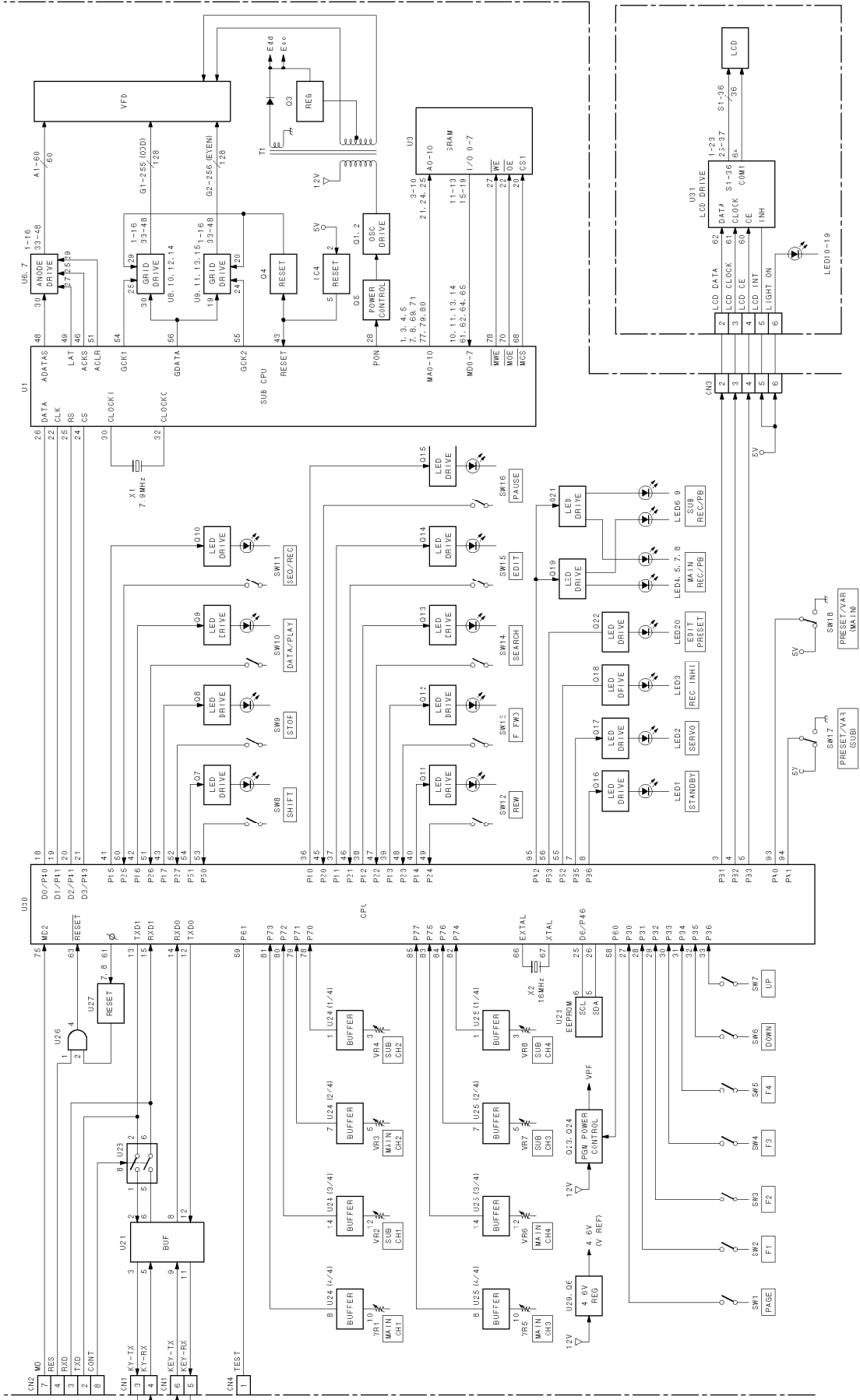


SY-260 Block diagram





Block diagram VFD assembly VFD assembly Block diagram



Display and function control
VFD assembly
LOT NO. 905-

Section 4
Schematic Diagrams

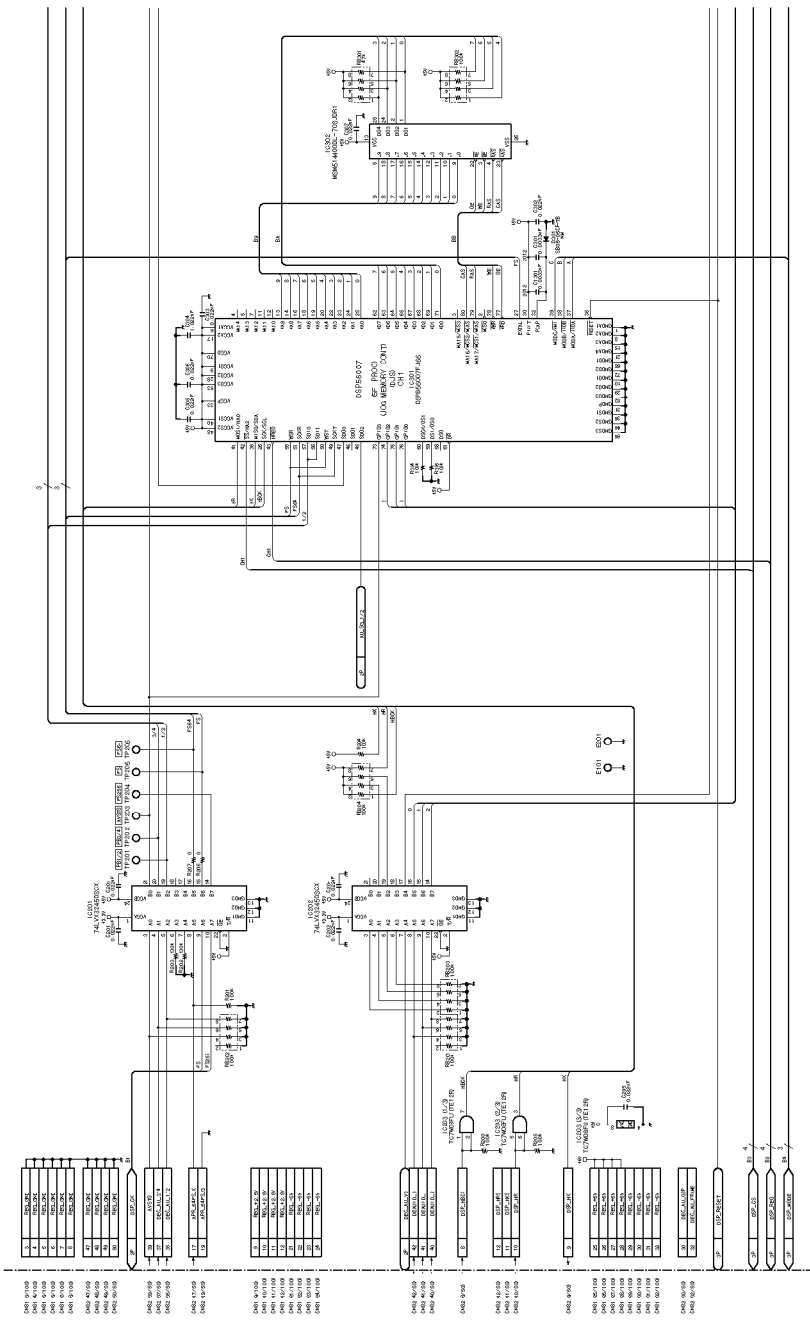
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RE-158	4-149
S. SDI-23	4-80
SE-529	4-93
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*BRR: Bit Rate Reduction **ECC: Error Correction Coding ***TBC: Time Base Corrector

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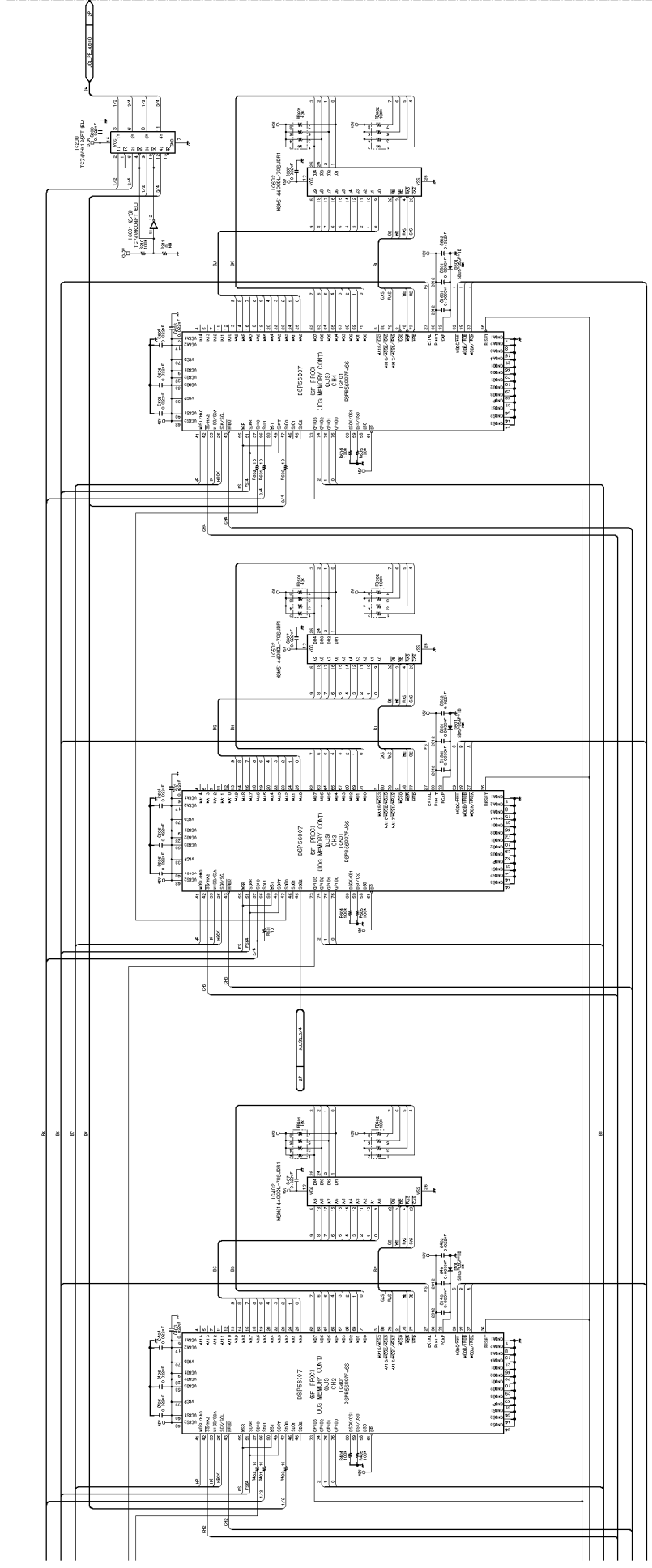


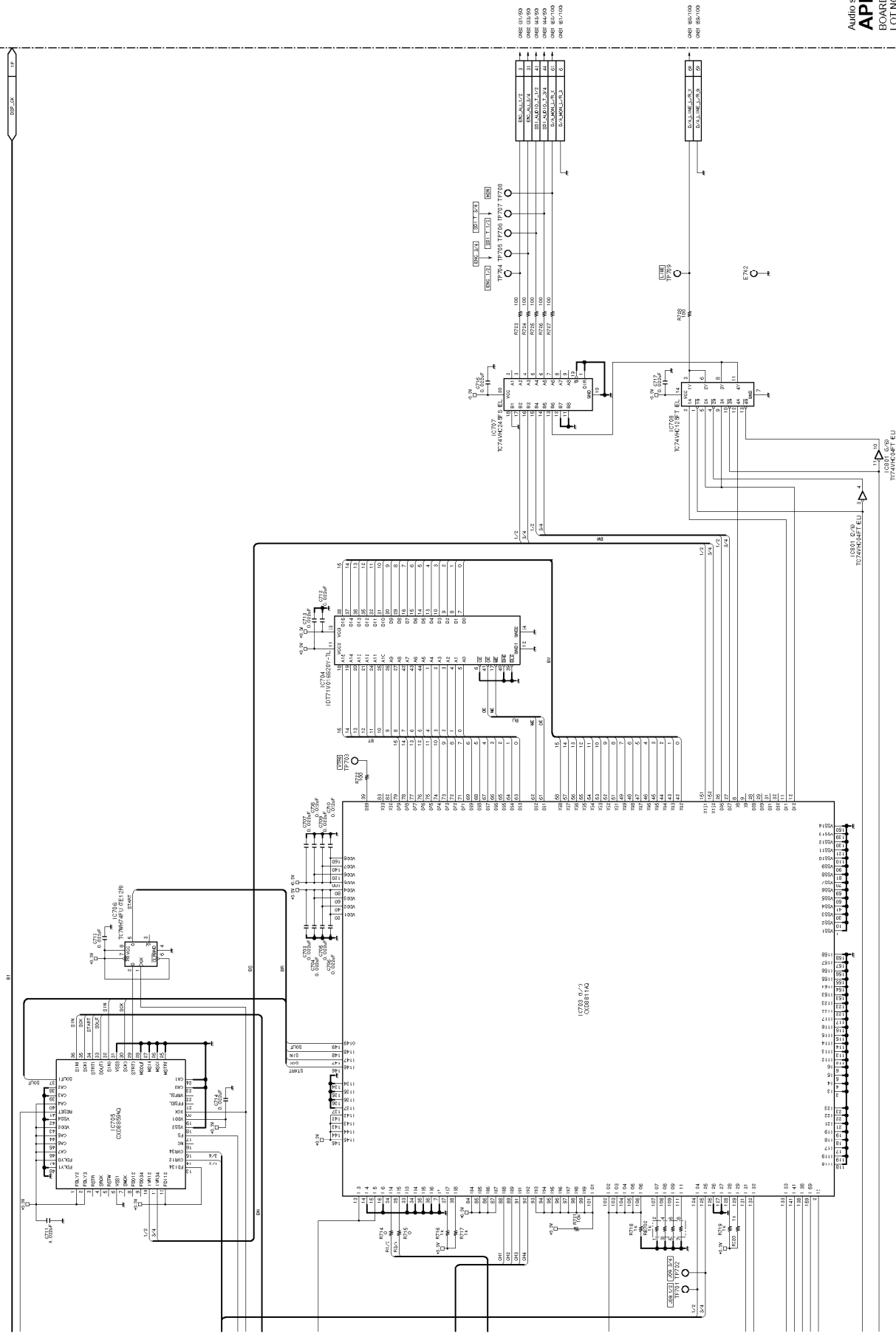
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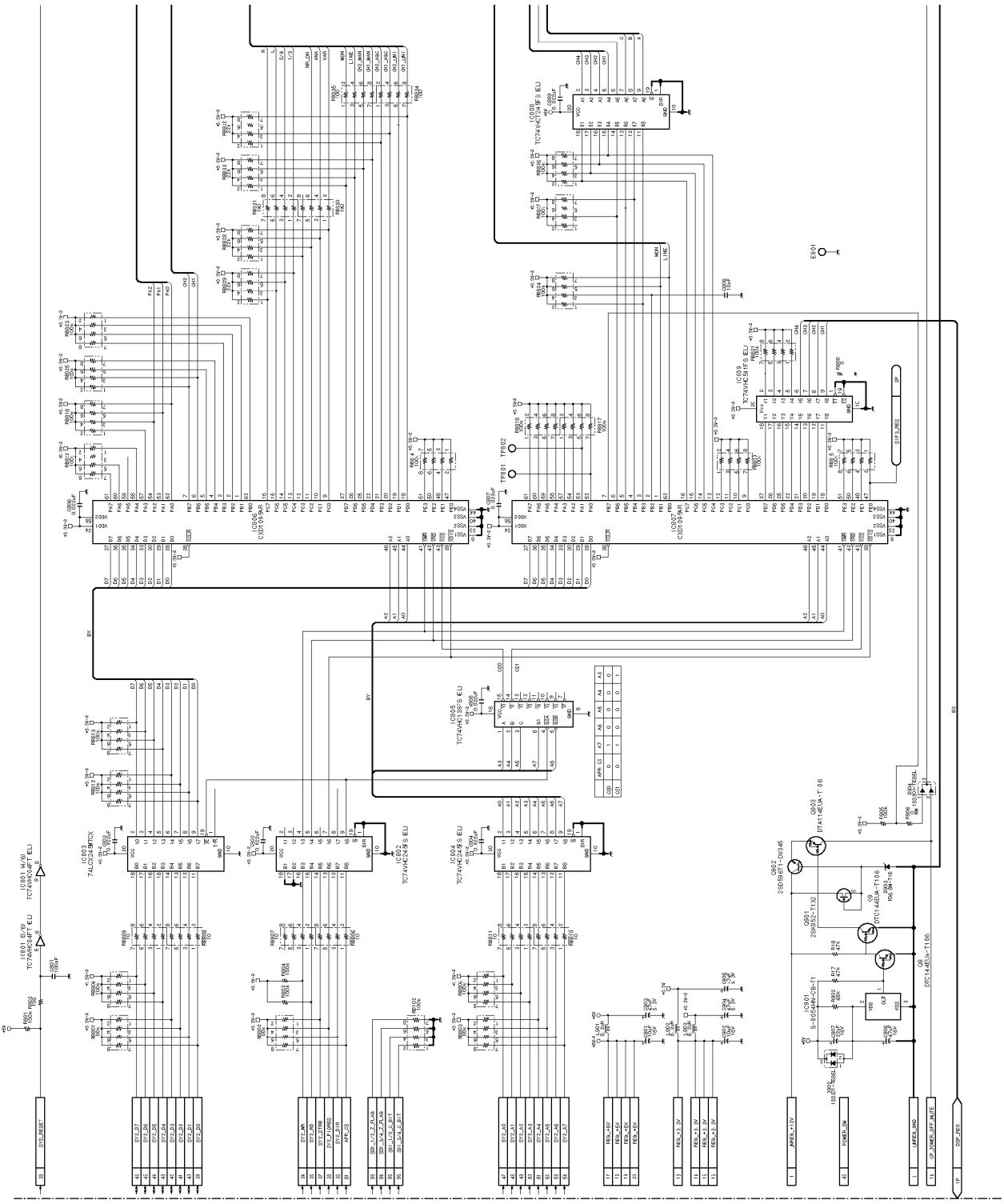
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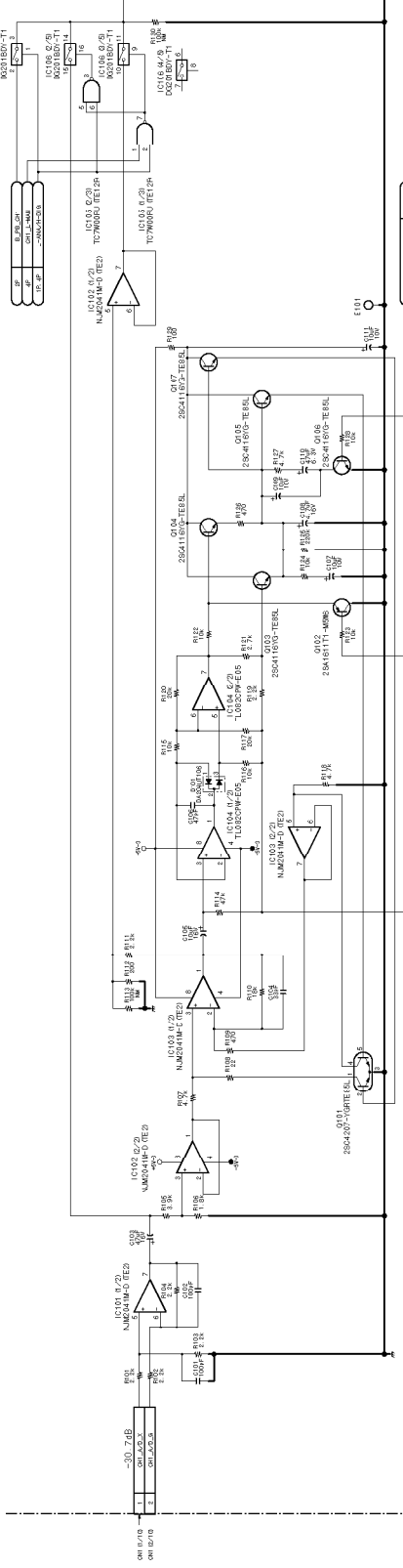
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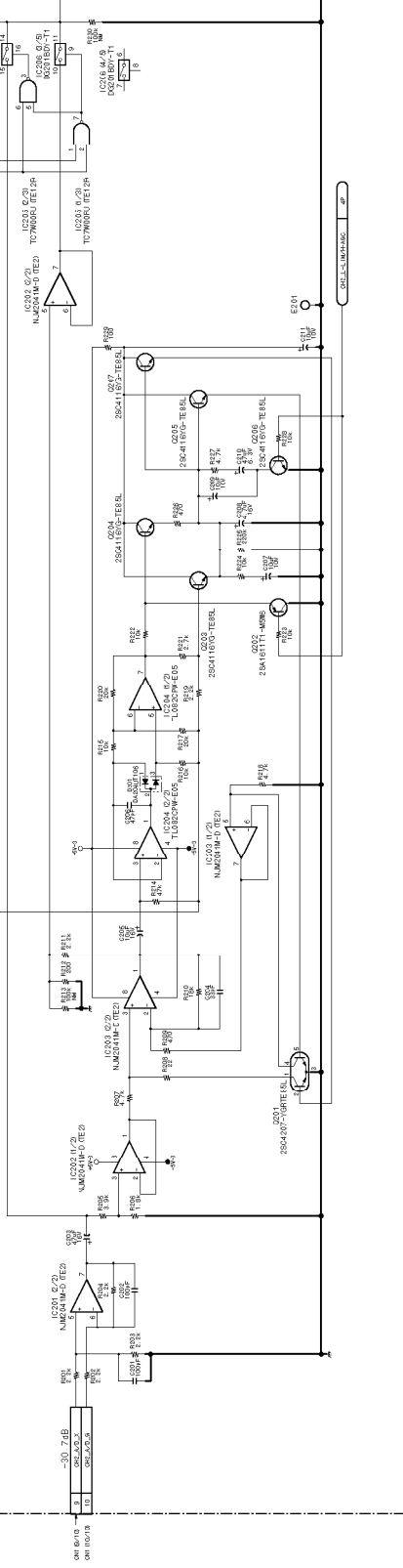


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DNV-A28
DNV-A29P
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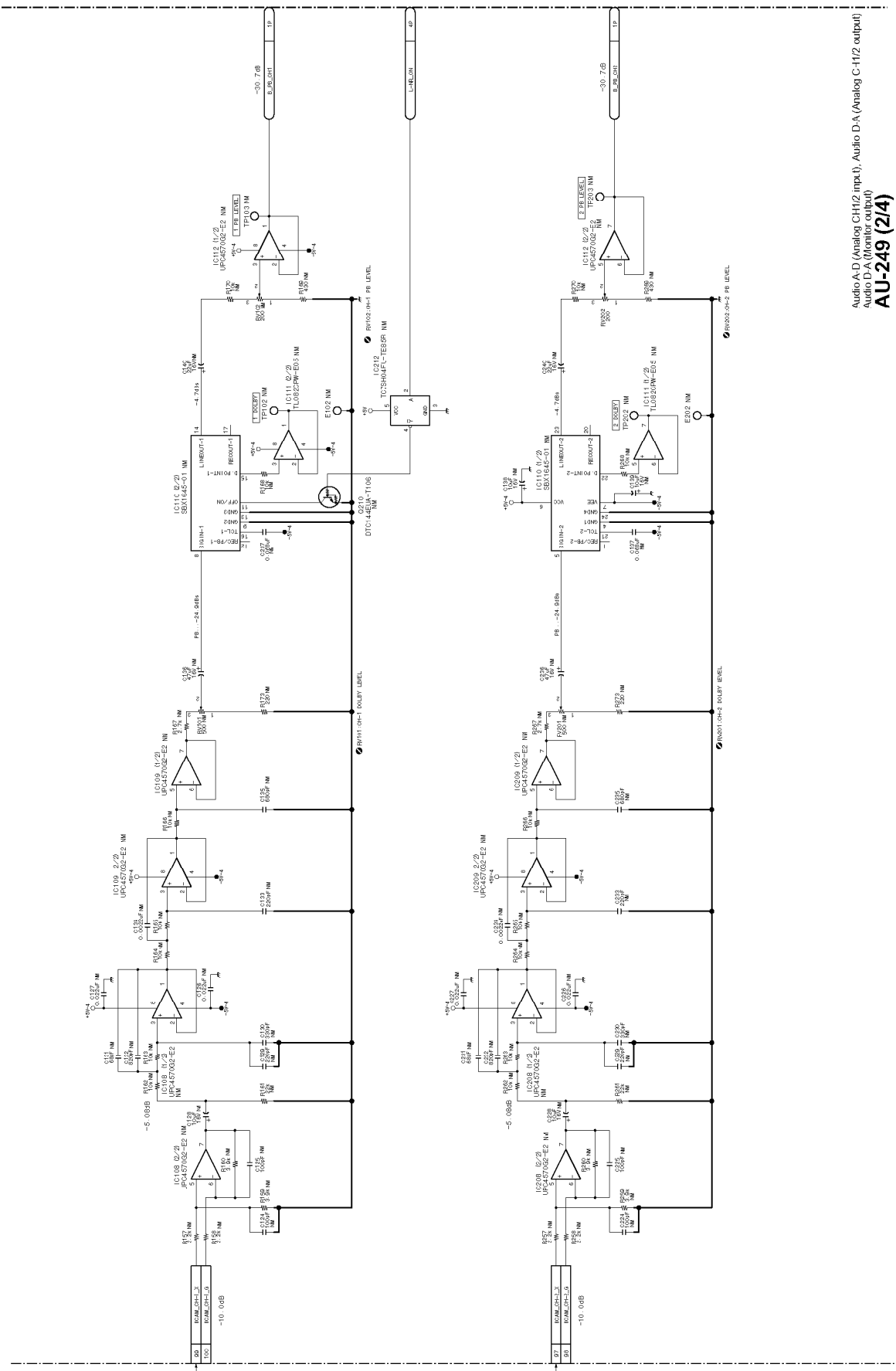
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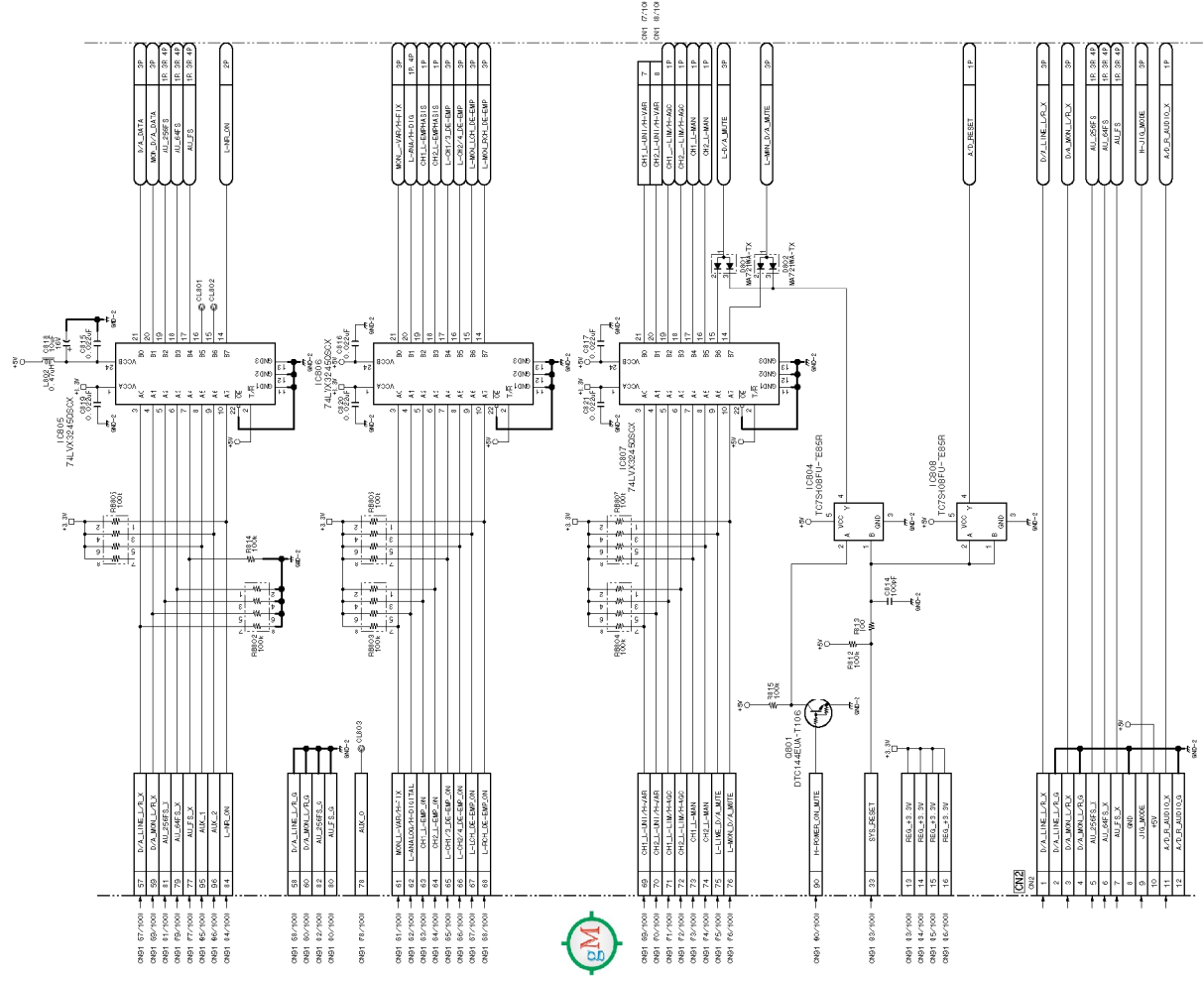
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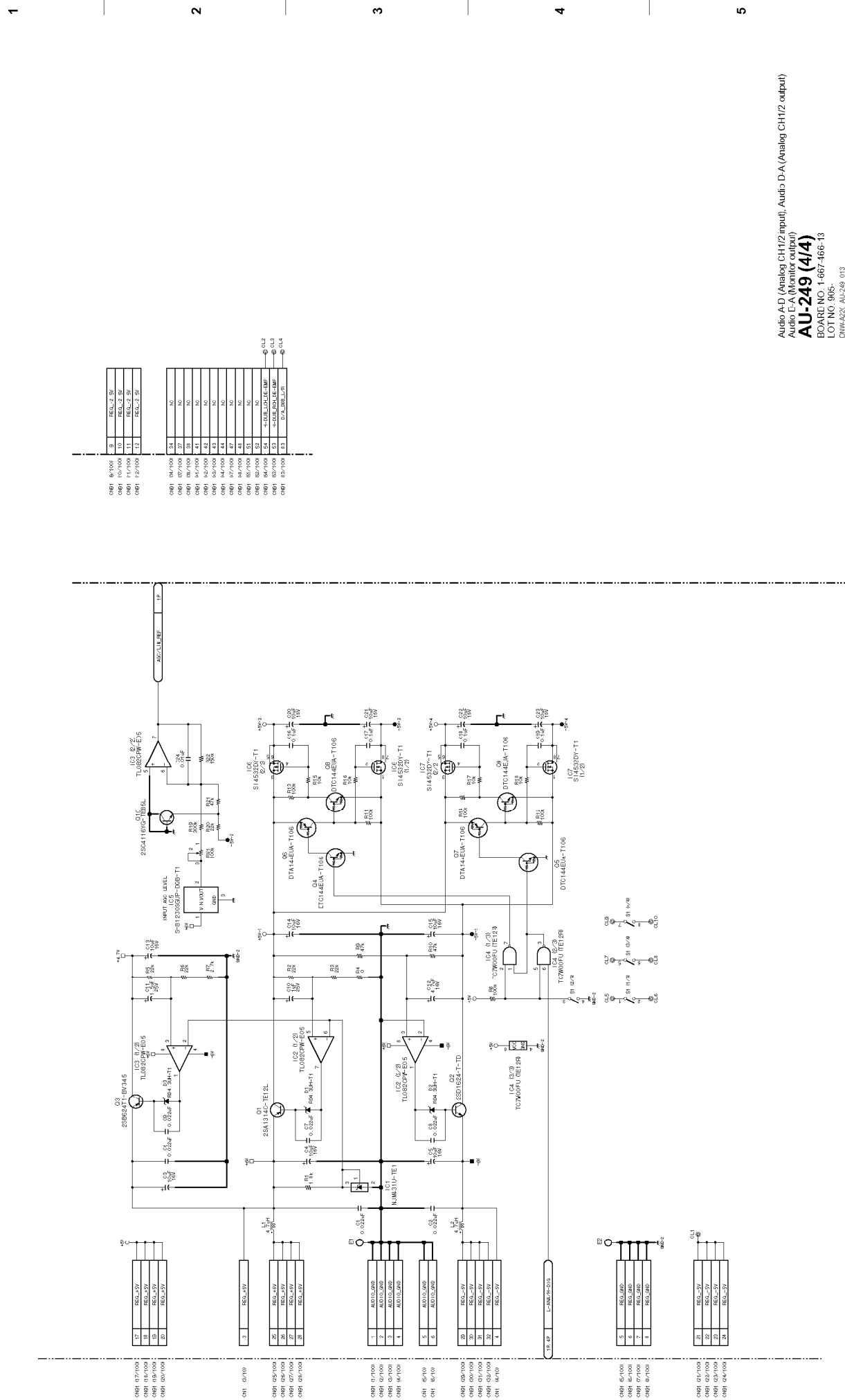
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Audio A-D (Analog CH1/2 input), Audio D-A (Analog C-1/2 output)
Audio D-A (Analog output)
AU-249 (2/4)
BOARD NO. 1-867-466-13
-OT NO. 905-
DMM-A220_AU-249_013



AU-249 (4/4) AU-249 (4/4)



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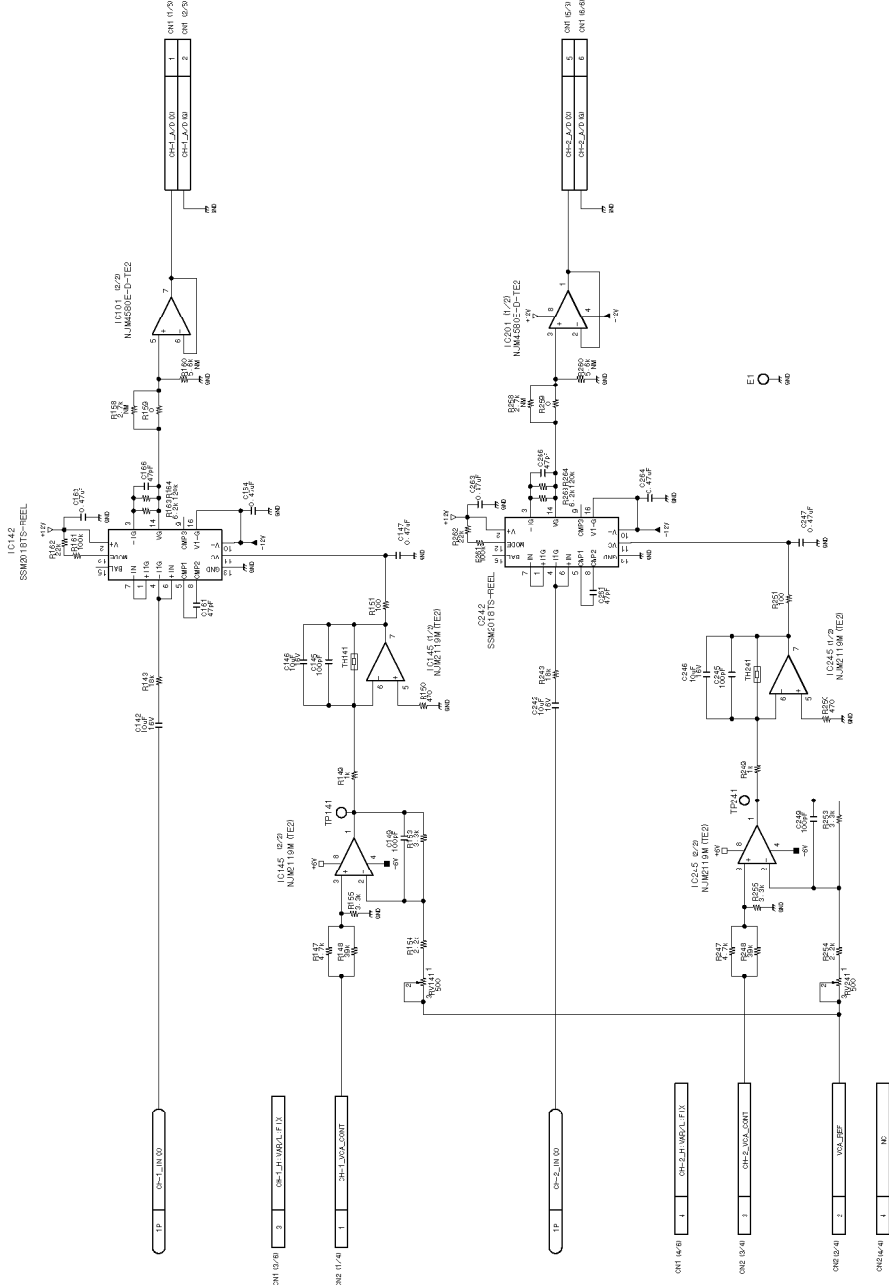
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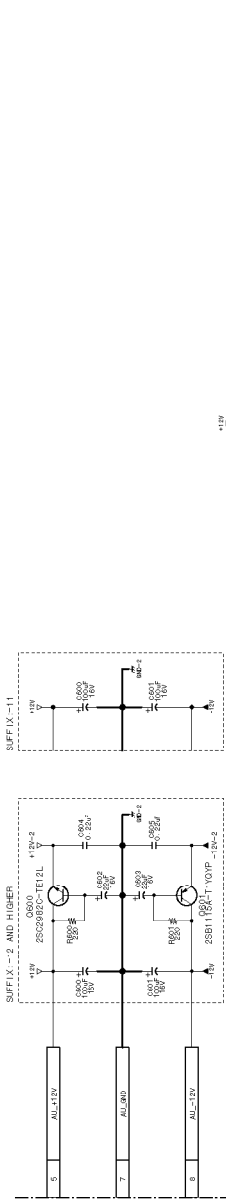
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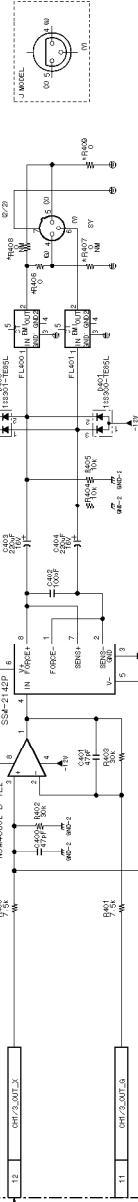


Connector board (AUDIO/MONITOR system)
select switch and audio amplifier
(AUDIO INPUT/OUTPUT, MONITOR OUTPUT)
CP-344/344A (2/3)
BOARD NO. 1.674-851-11, 12
LOT NO. 905-
DNR-A28_CP-344_P12

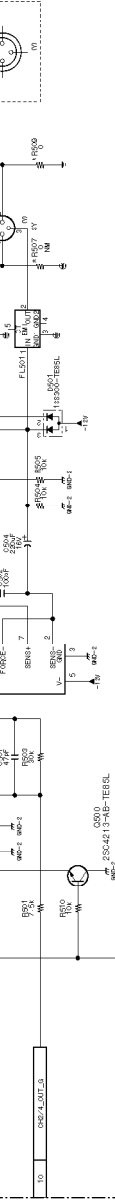
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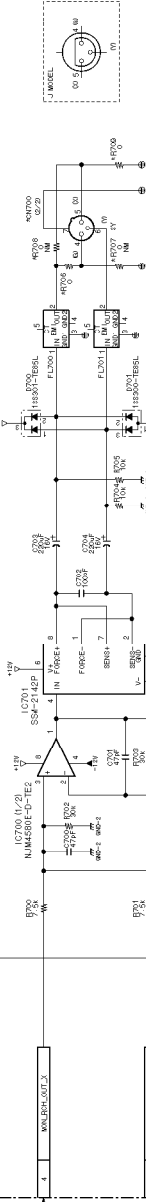
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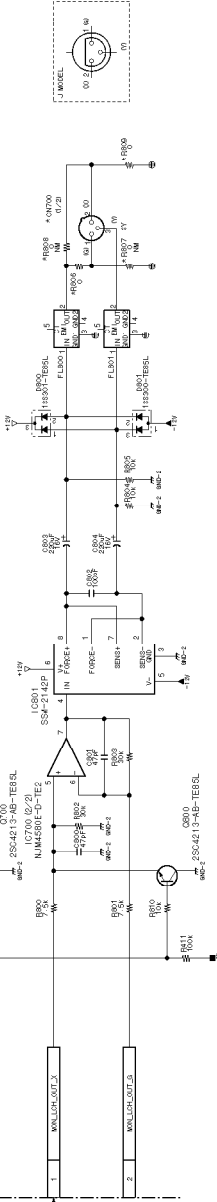
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	TY MODEL	J MODEL
C400	MALE	FEMALE
C500	MALE	FEMALE
C600	MALE	FEMALE
C700	MALE	FEMALE
C800	MALE	FEMALE
C900	MALE	FEMALE
C1000	MALE	FEMALE
C1100	MALE	FEMALE
C1200	MALE	FEMALE
C1300	MALE	FEMALE
C1400	MALE	FEMALE
C1500	MALE	FEMALE
C1600	MALE	FEMALE
C1700	MALE	FEMALE
C1800	MALE	FEMALE
C1900	MALE	FEMALE
C2000	MALE	FEMALE
C2100	MALE	FEMALE
C2200	MALE	FEMALE
C2300	MALE	FEMALE
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C2500	MALE	FEMALE
C2600	MALE	FEMALE
C2700	MALE	FEMALE
C2800	MALE	FEMALE
C2900	MALE	FEMALE
C3000	MALE	FEMALE
C3100	MALE	FEMALE
C3200	MALE	FEMALE
C3300	MALE	FEMALE
C3400	MALE	FEMALE
C3500	MALE	FEMALE
C3600	MALE	FEMALE
C3700	MALE	FEMALE
C3800	MALE	FEMALE
C3900	MALE	FEMALE
C4000	MALE	FEMALE

Carrier board (AUDIO/MONITOR system),
select switch and audio amplifier
(AUDIO INPUT/OUTPUT, MONITOR OUTPUT)
CP-344/344A (3/3)
BOARD NO. 1-674-851-11, 12
LOT NO. 005,
DNW-A38, CF-344, P12

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4-18

A

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C

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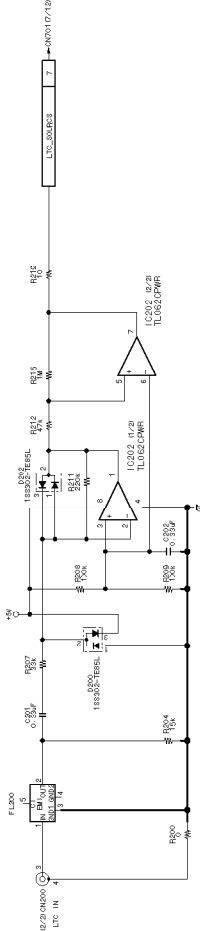
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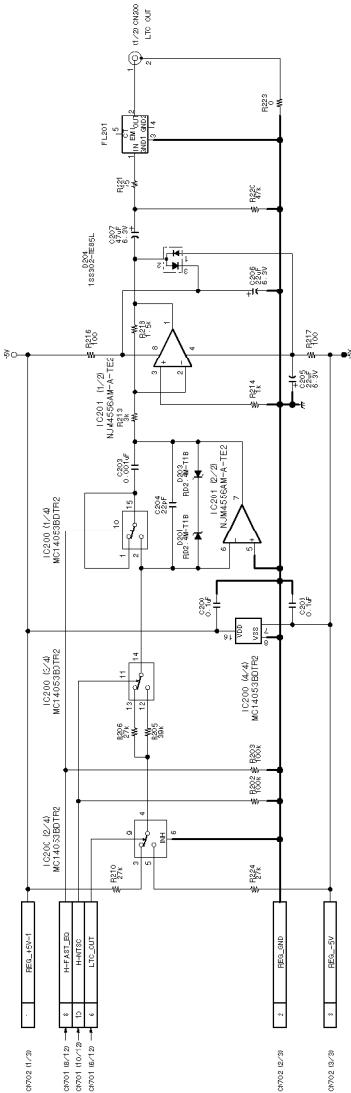
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DNW-A38
DNW-A38P
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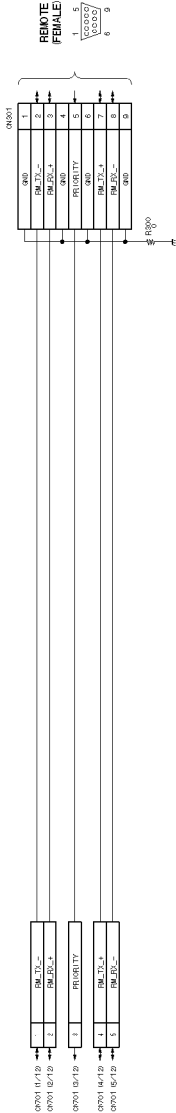


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Connector board (VIDEO/REMOTE/SD/DC/TC system),
selected with arc amplifier
(VIDEO INPUT/OUTPUT, REMOTE, SDIN/OUT, DC OUT, TC IN/OUT),
CP-354 (2/2)
BOARD NO. 1-675-278-11, 12
LOT NO. 905-
DNW-338_CP-354_012

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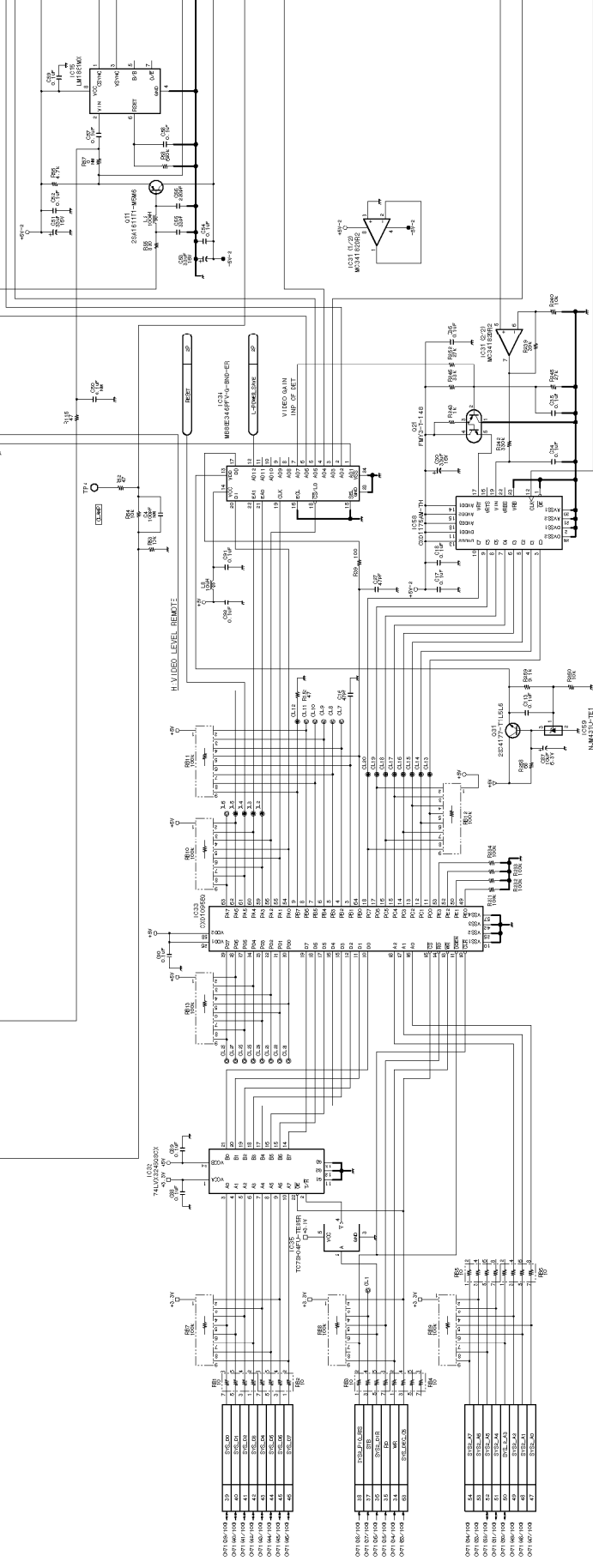
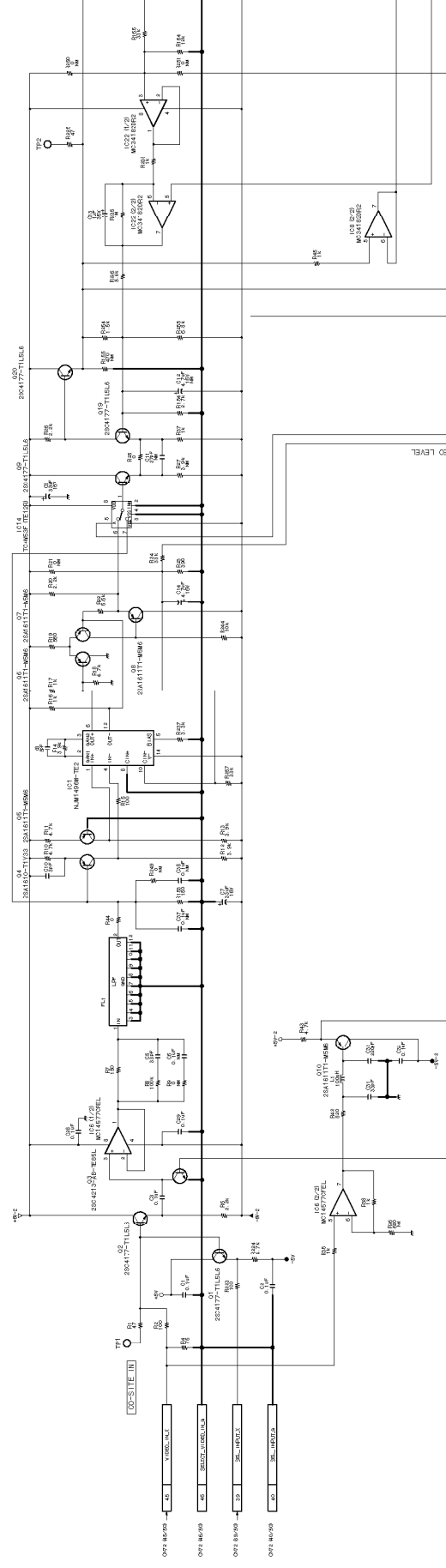
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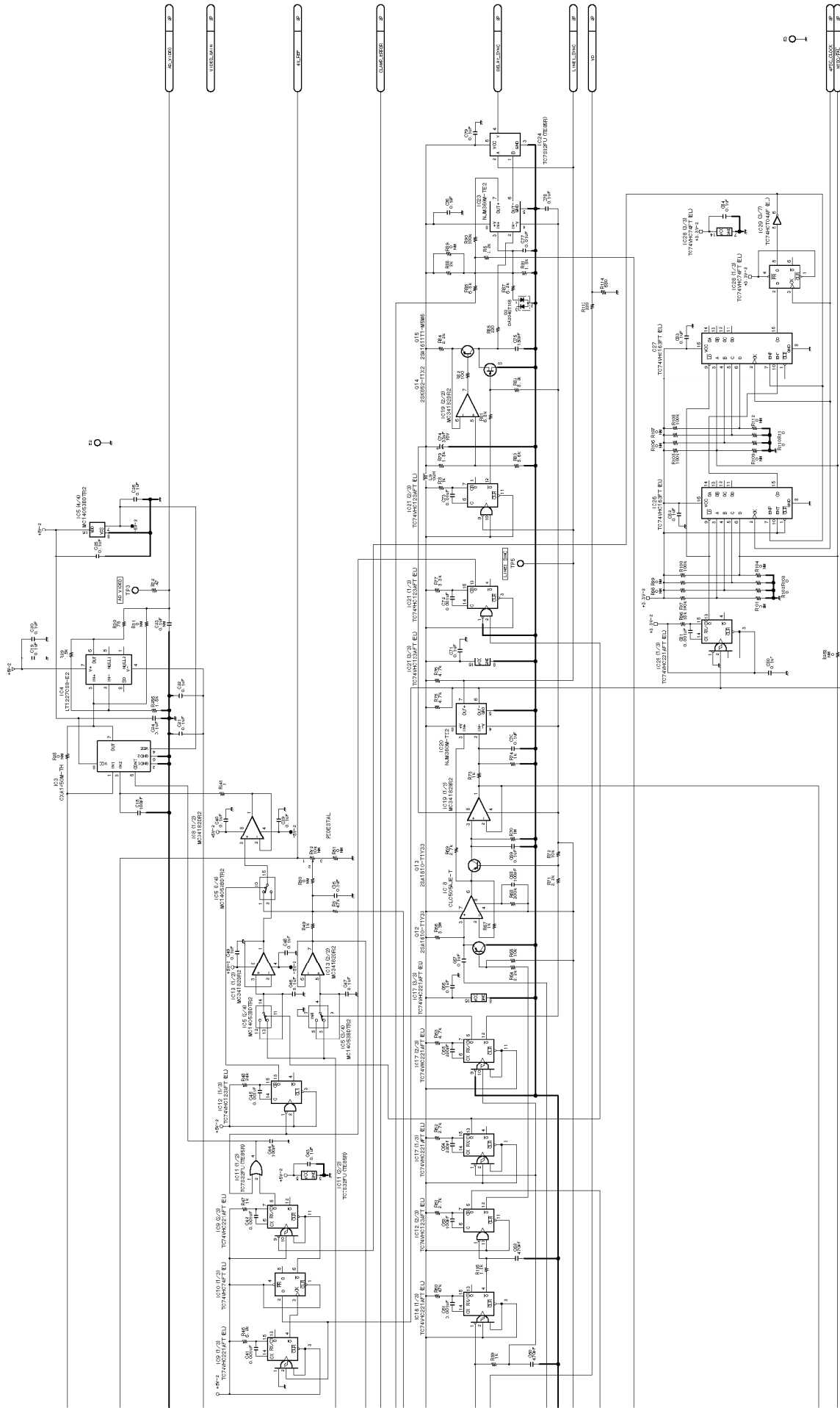
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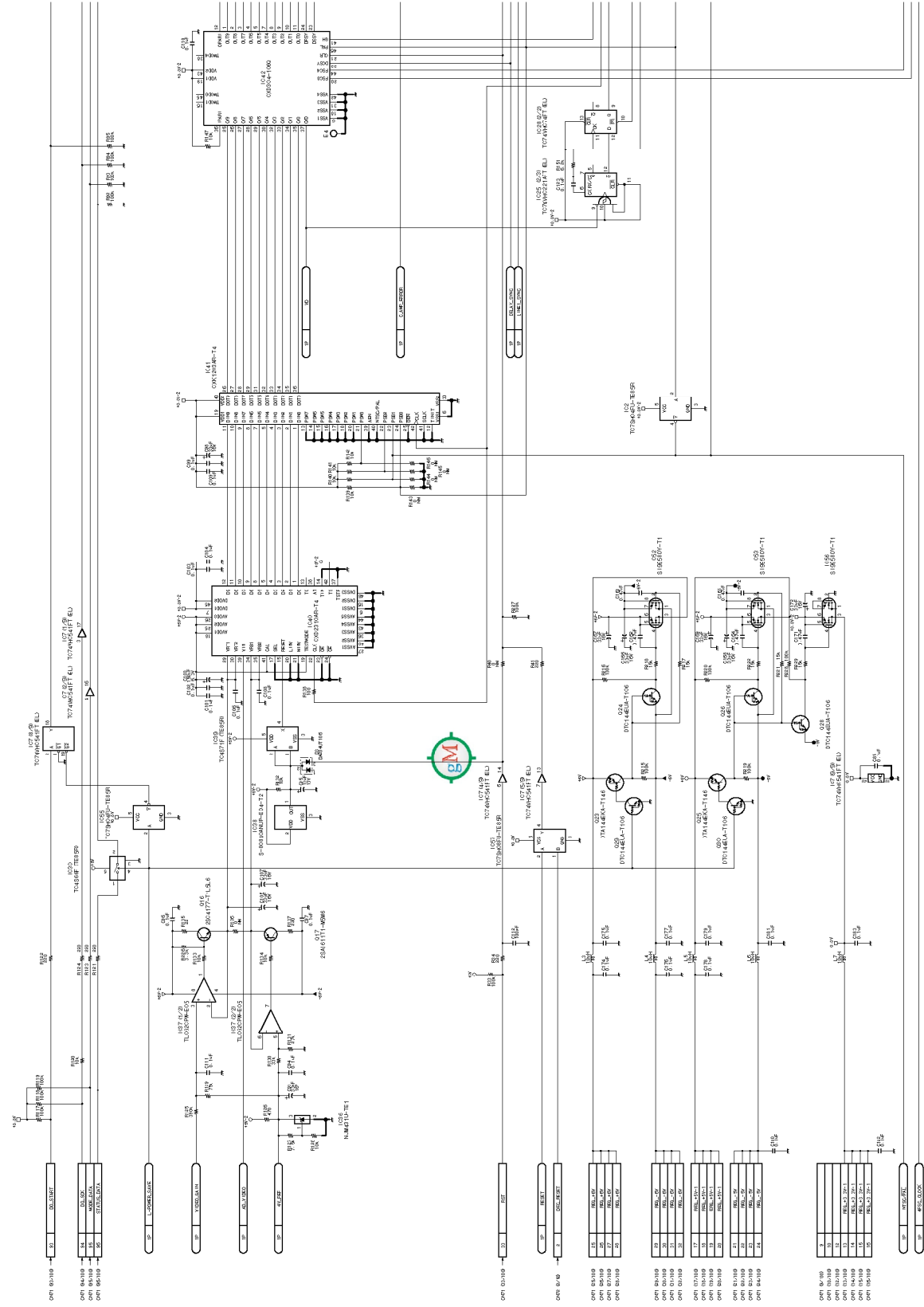
DNW-A08
DNW-A29P
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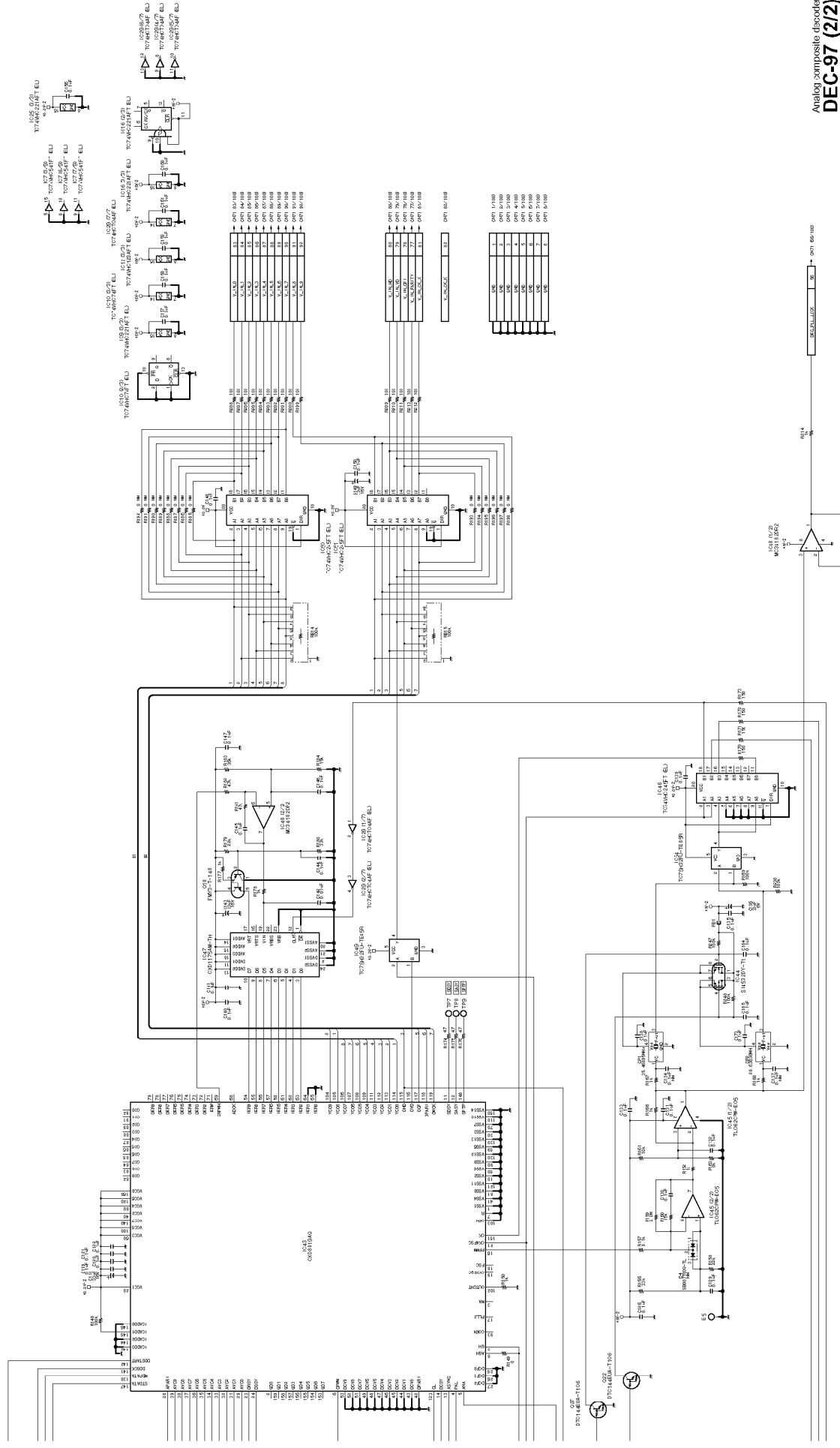
DEC-97 (1/2)



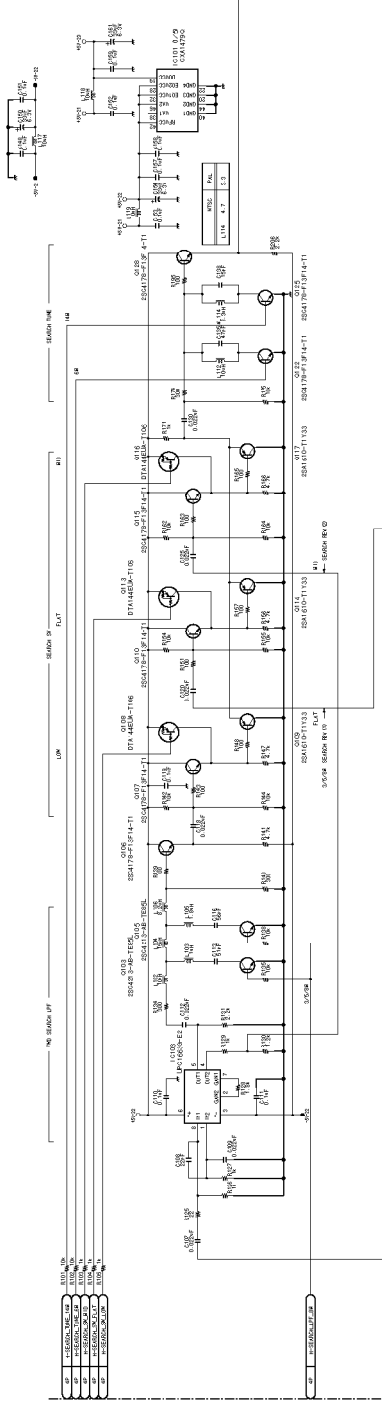


Analog composite decoder
DEC-97 (1/2)
BOARD NO. 1-667-471-13
LOT NO. 905-
DNW-A2X_DEC-97_913



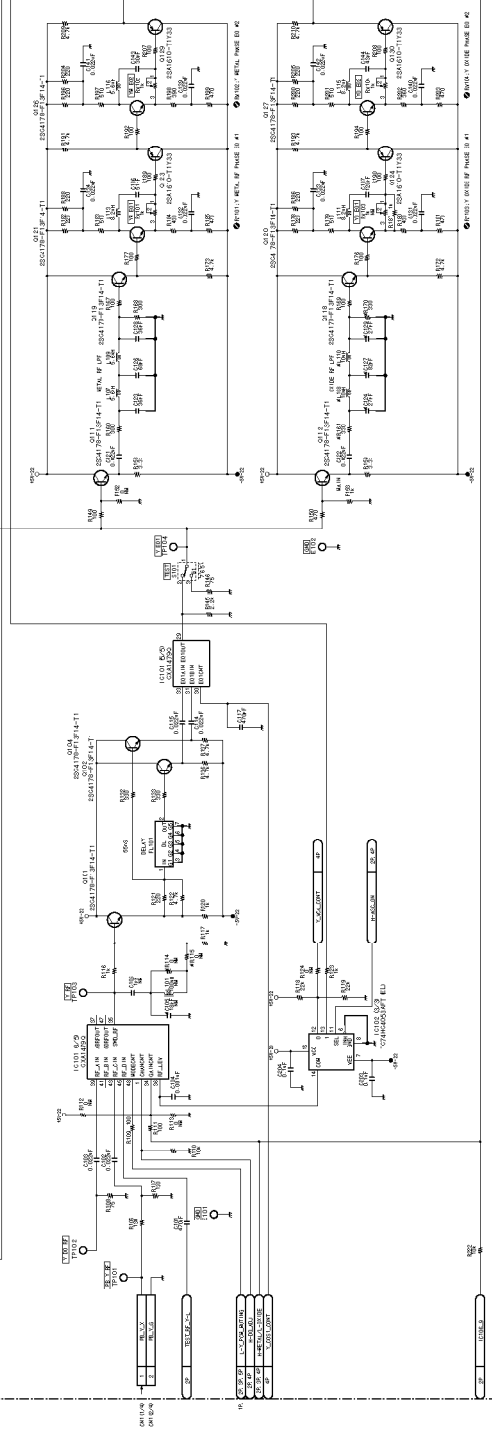


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W	W2	W3
100	100	100
100	100	100
100	100	100
100	100	100
100	100	100

W	W2	W3
100	100	100
100	100	100
100	100	100
100	100	100
100	100	100
100	100	100

1

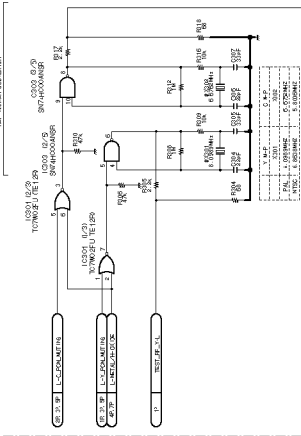
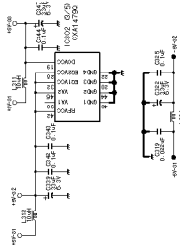
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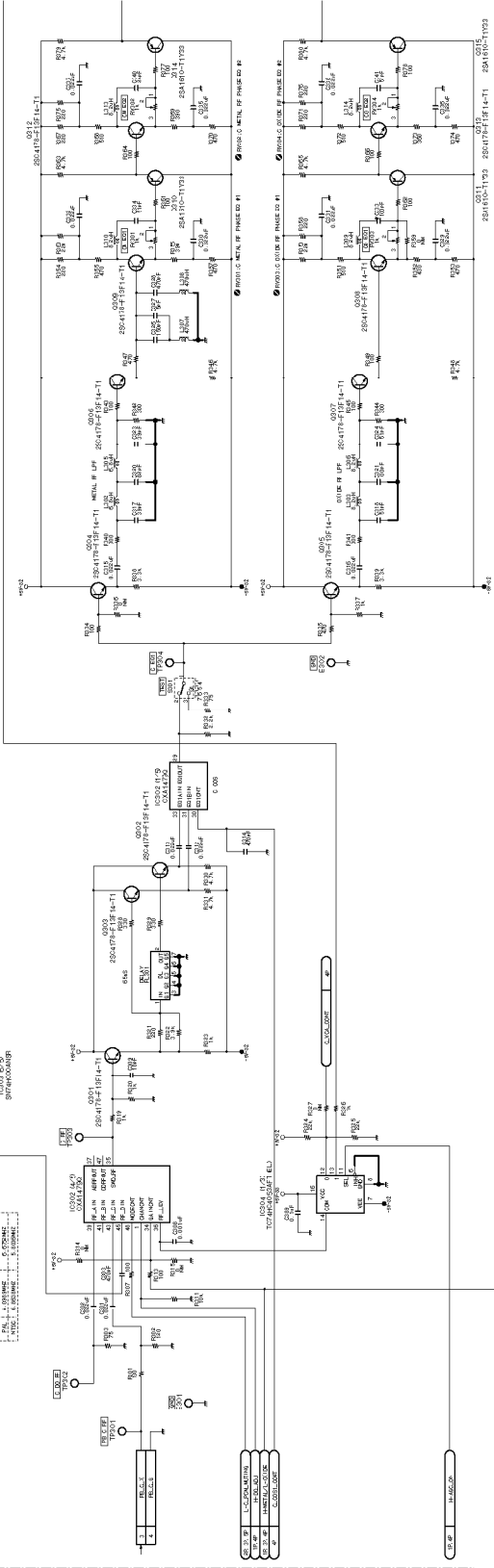
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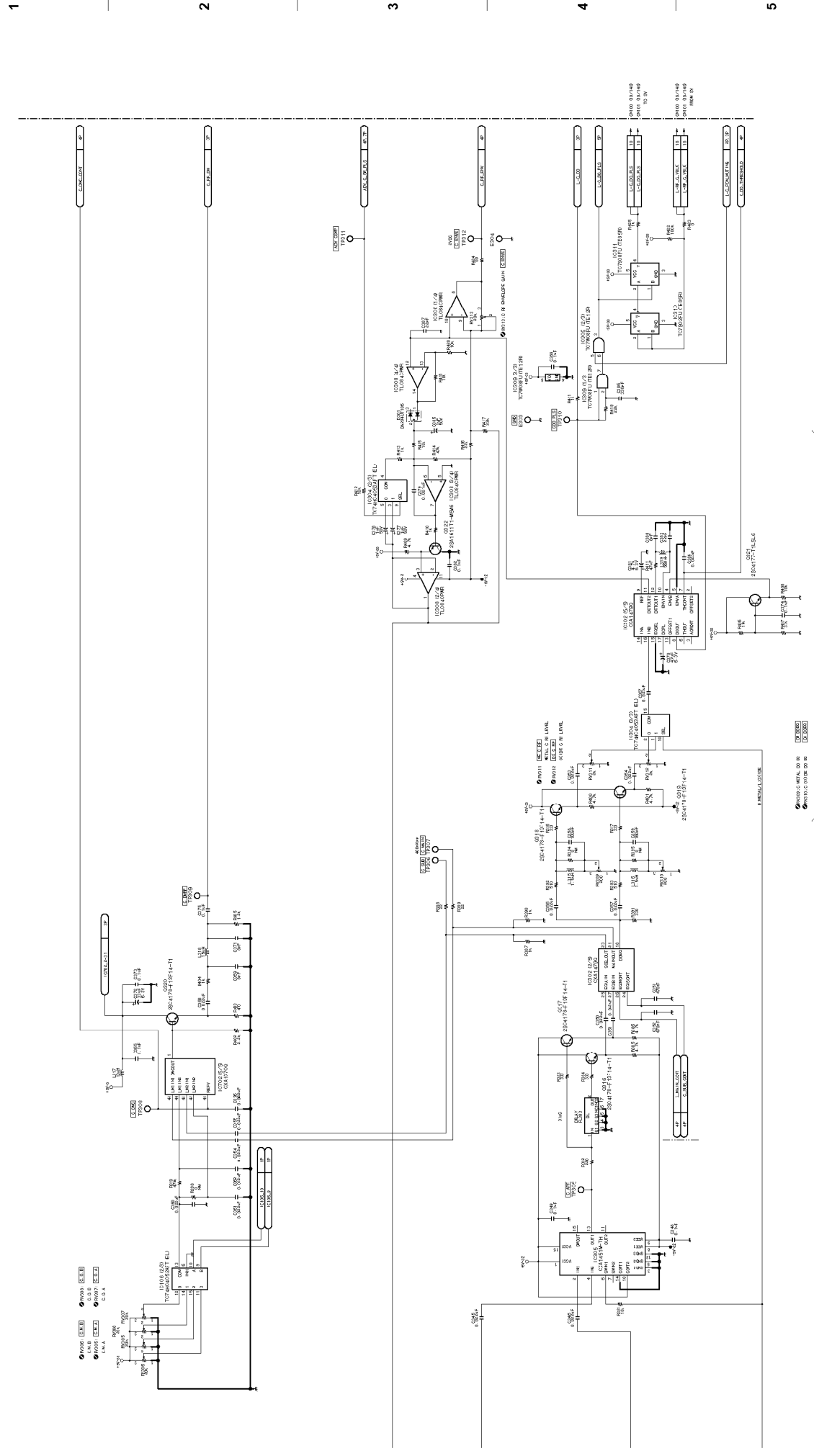


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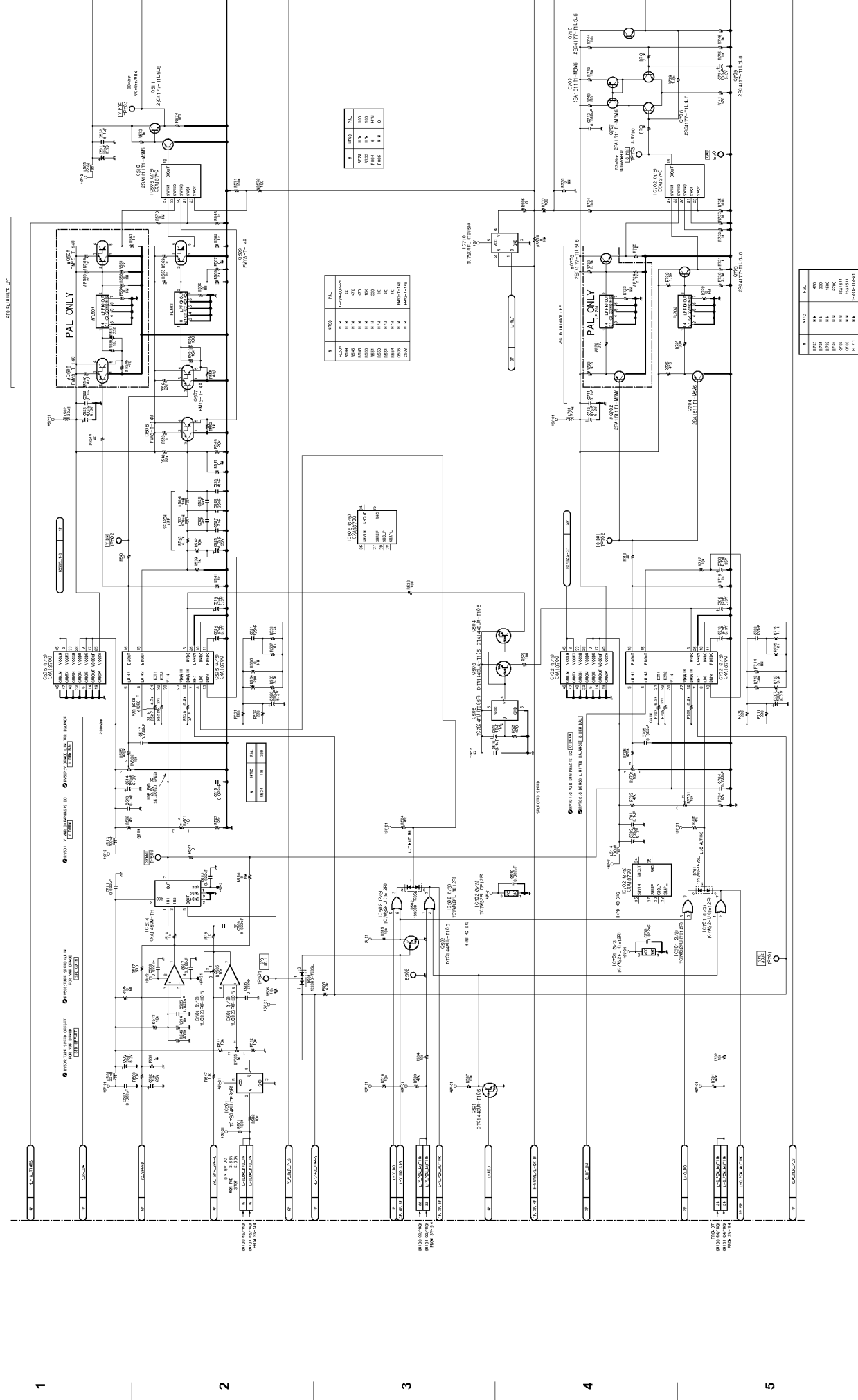
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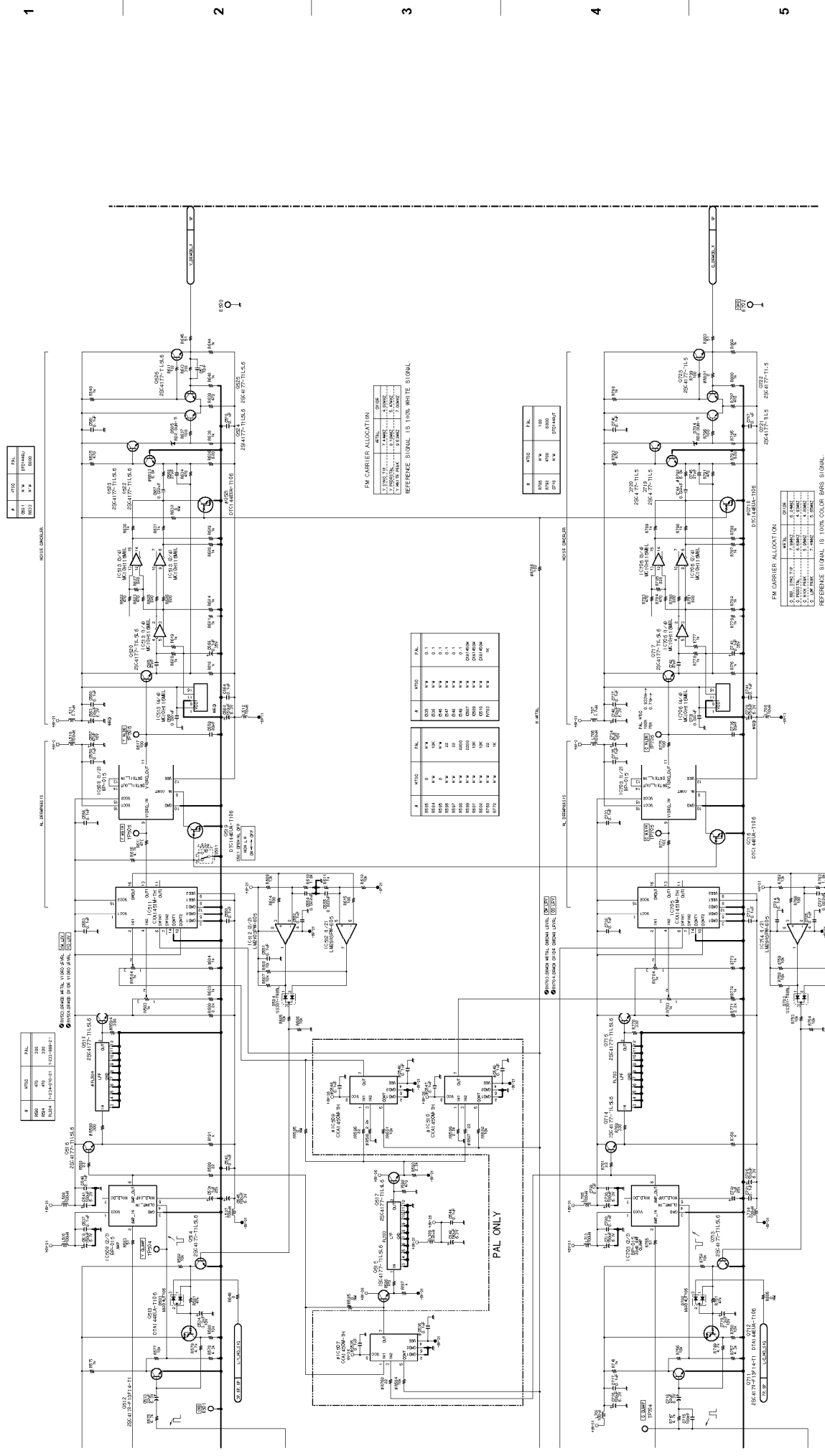
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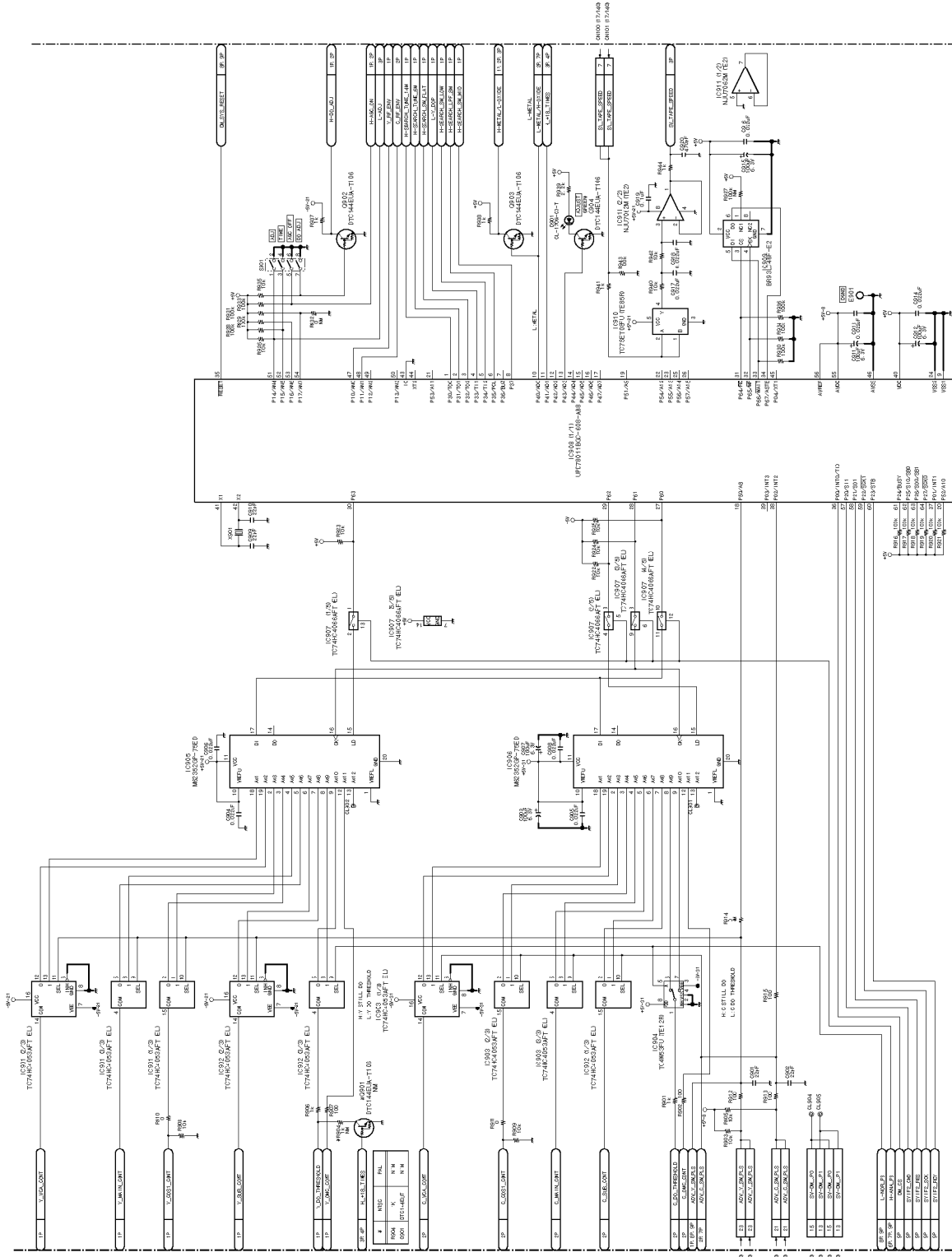
RF demodulator for analog Belacam PB, TBC
DM-114/114P (2/9)
 BOARD NO. 1-667-547-13
 LOT NO. 905-
 DNW-A220 DM-114 013



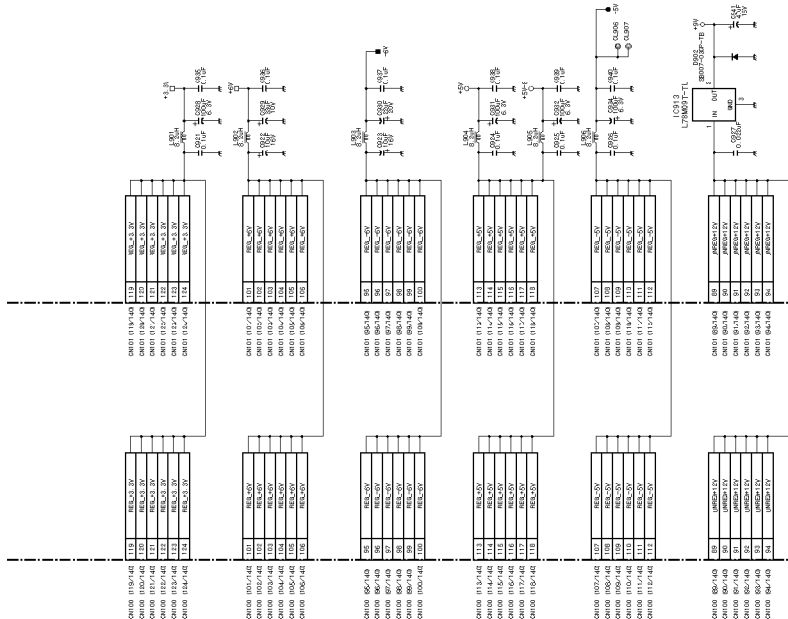
DM-114/114P (3/9)



RF demodulator for analog Belcam PB, TBC
DM-114/114P (3/9)
BOARD NO. 1-667-547-13
LOT NO. 905-
DWM-A22) DM-114 013



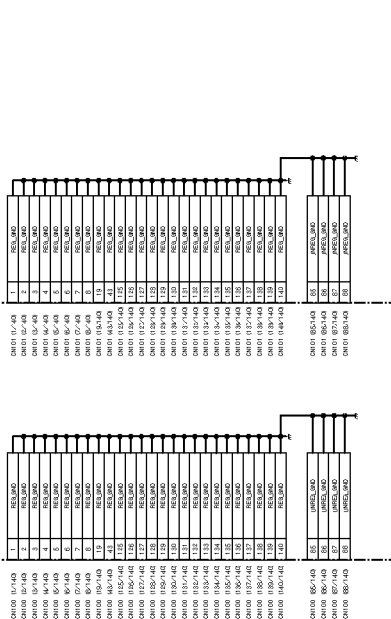
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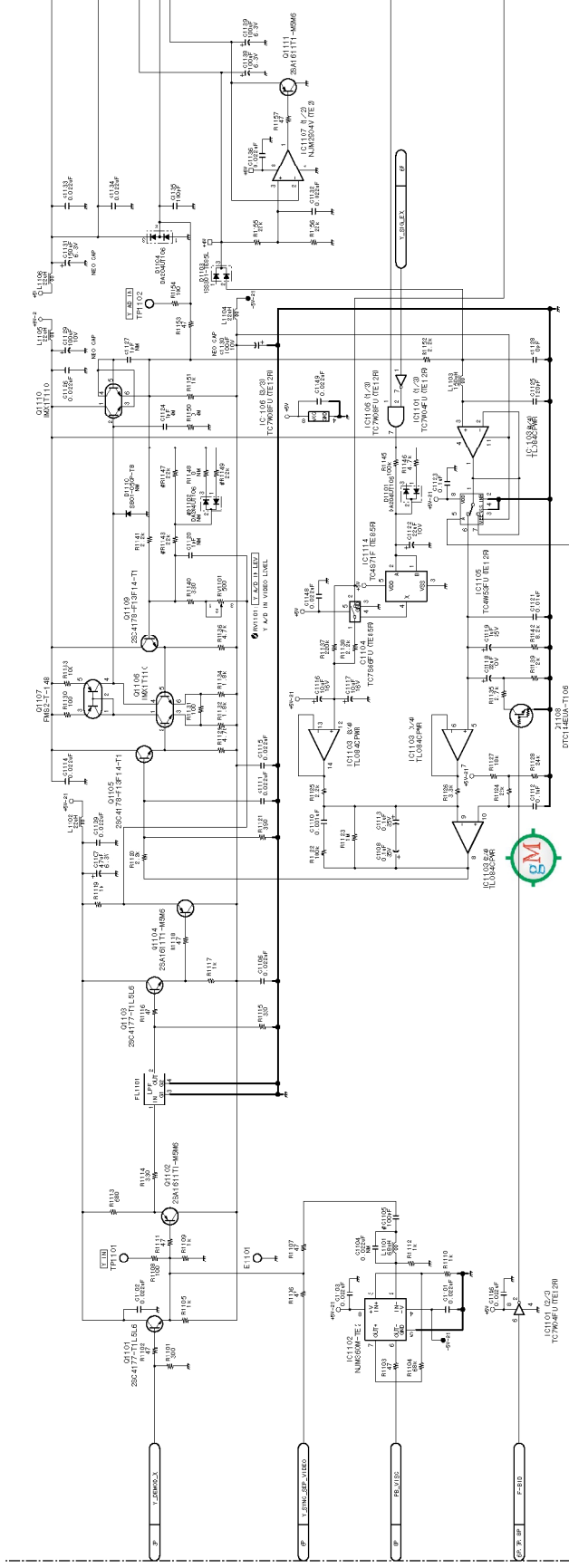
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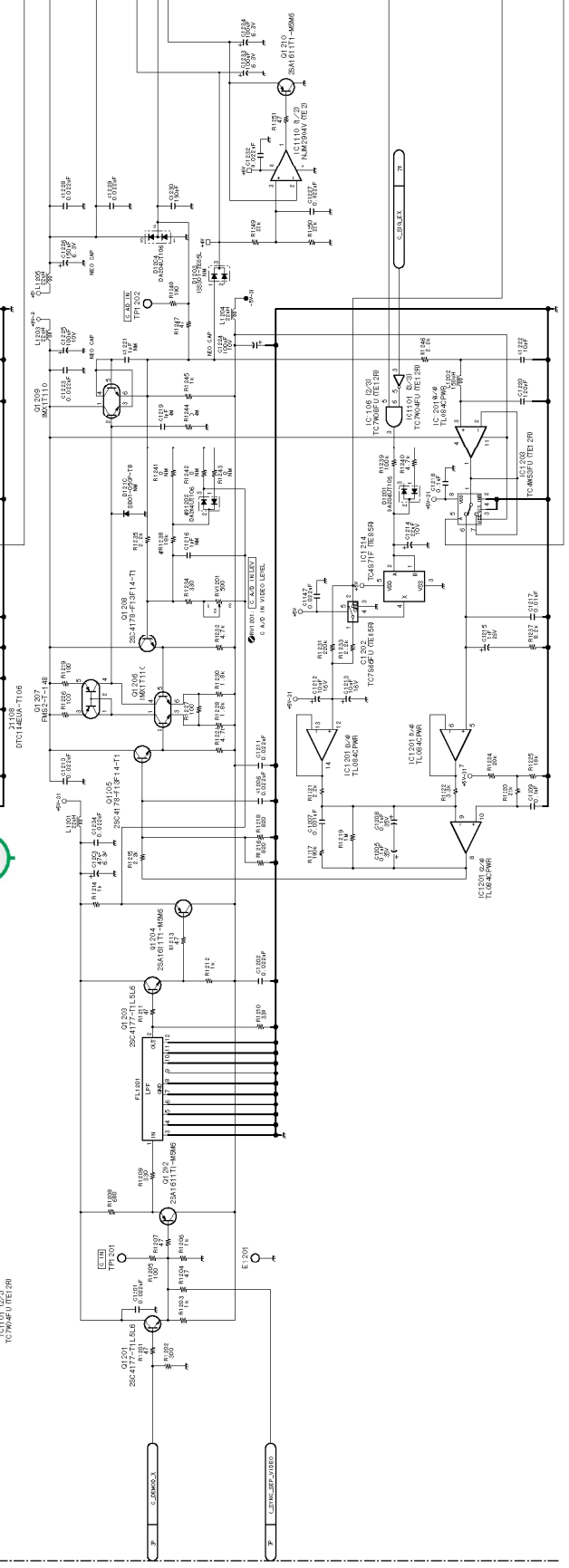


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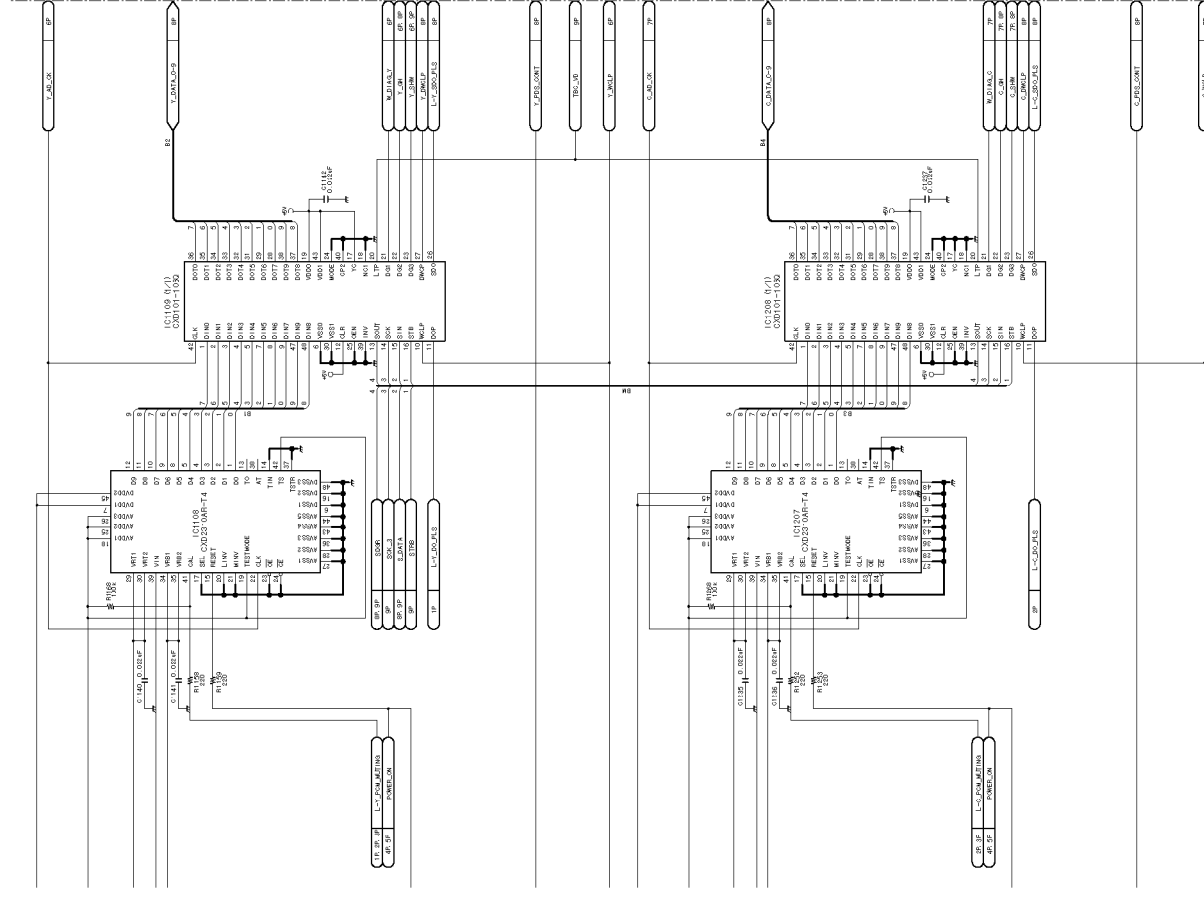


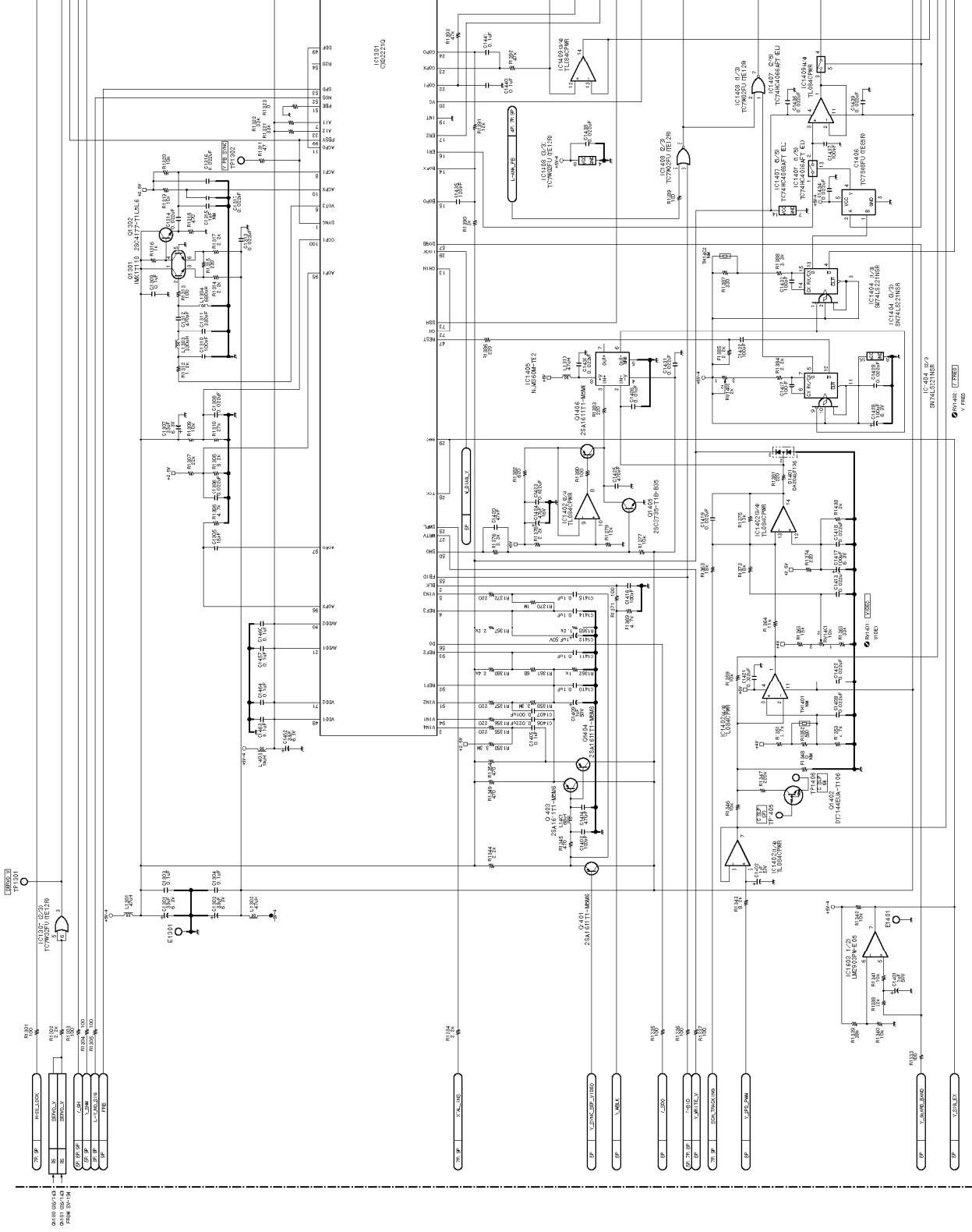
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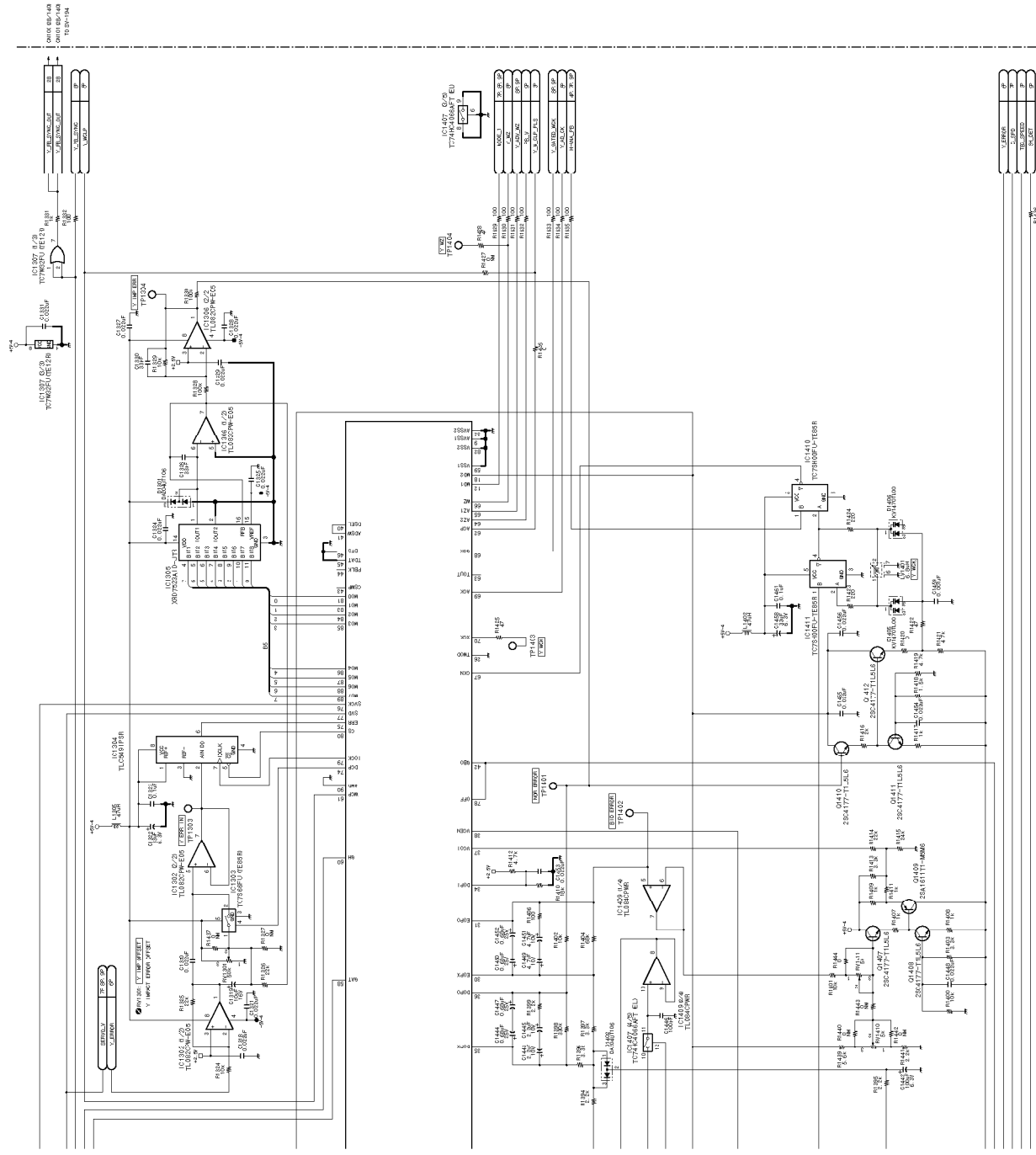
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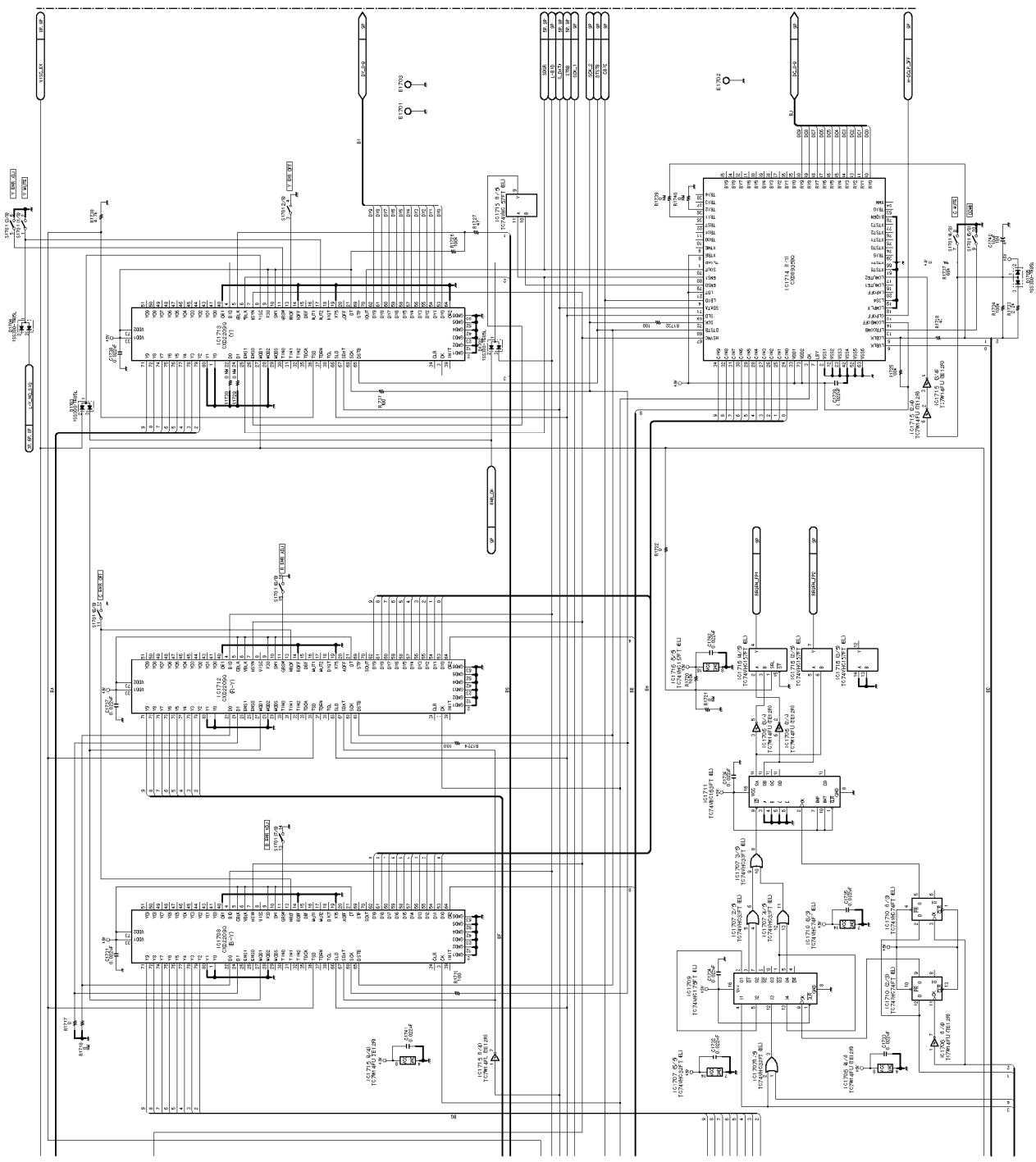




DM-114/114P (6/9) DM-114/114P (6/9)

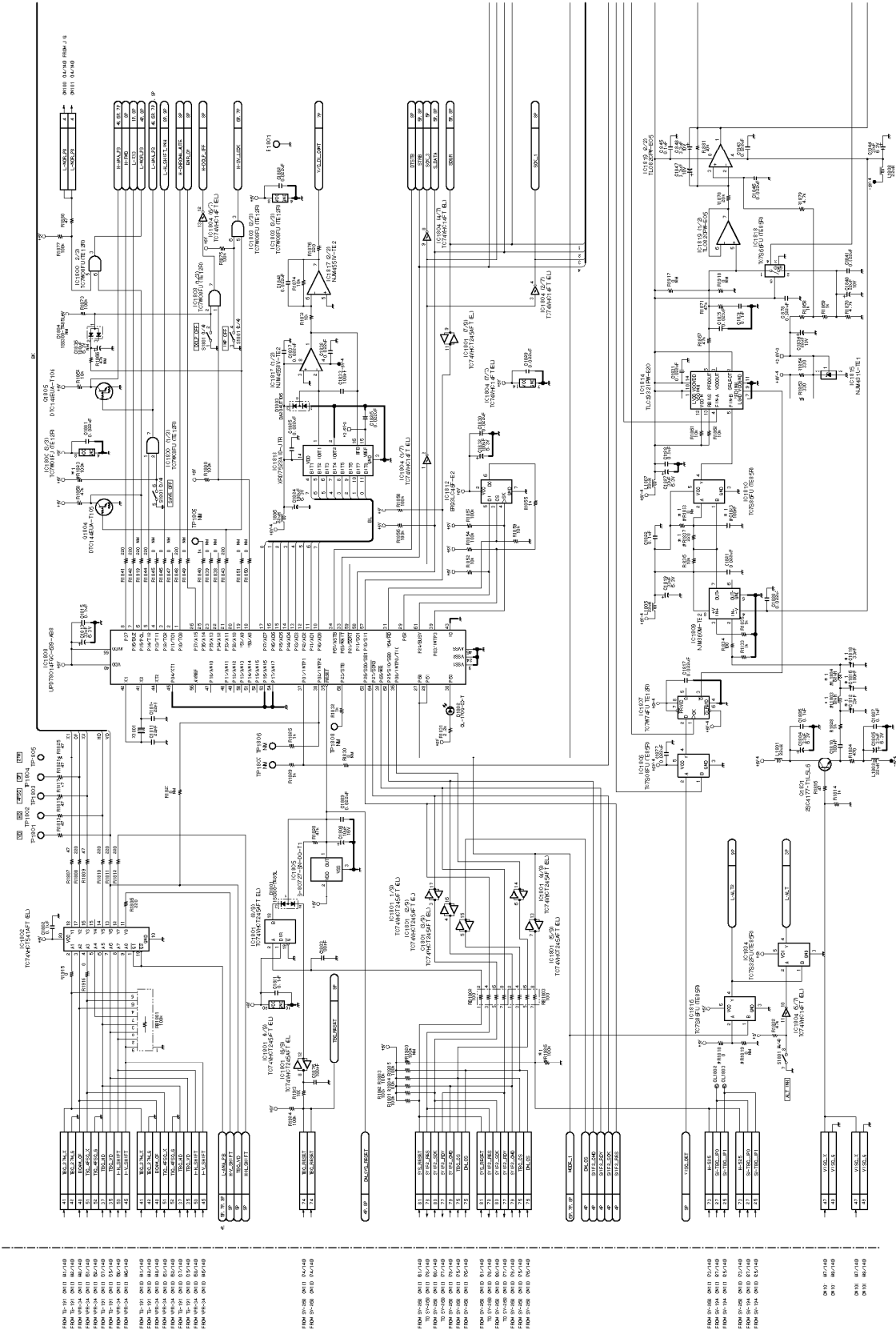


RF demodulator for analog Betacam PB, TBC
DM-114/114P (6/9)
BOARD NO. 1-667-547-13
LOT NO. 905
DWM-A222_DM4-14_013



RF demodulator for analog Betacam PB, TBC
DM-114/114P (8/9)
BOARD NO. 1-667-547-13
LOT NO. 905
DWM-A222_DM-114_013

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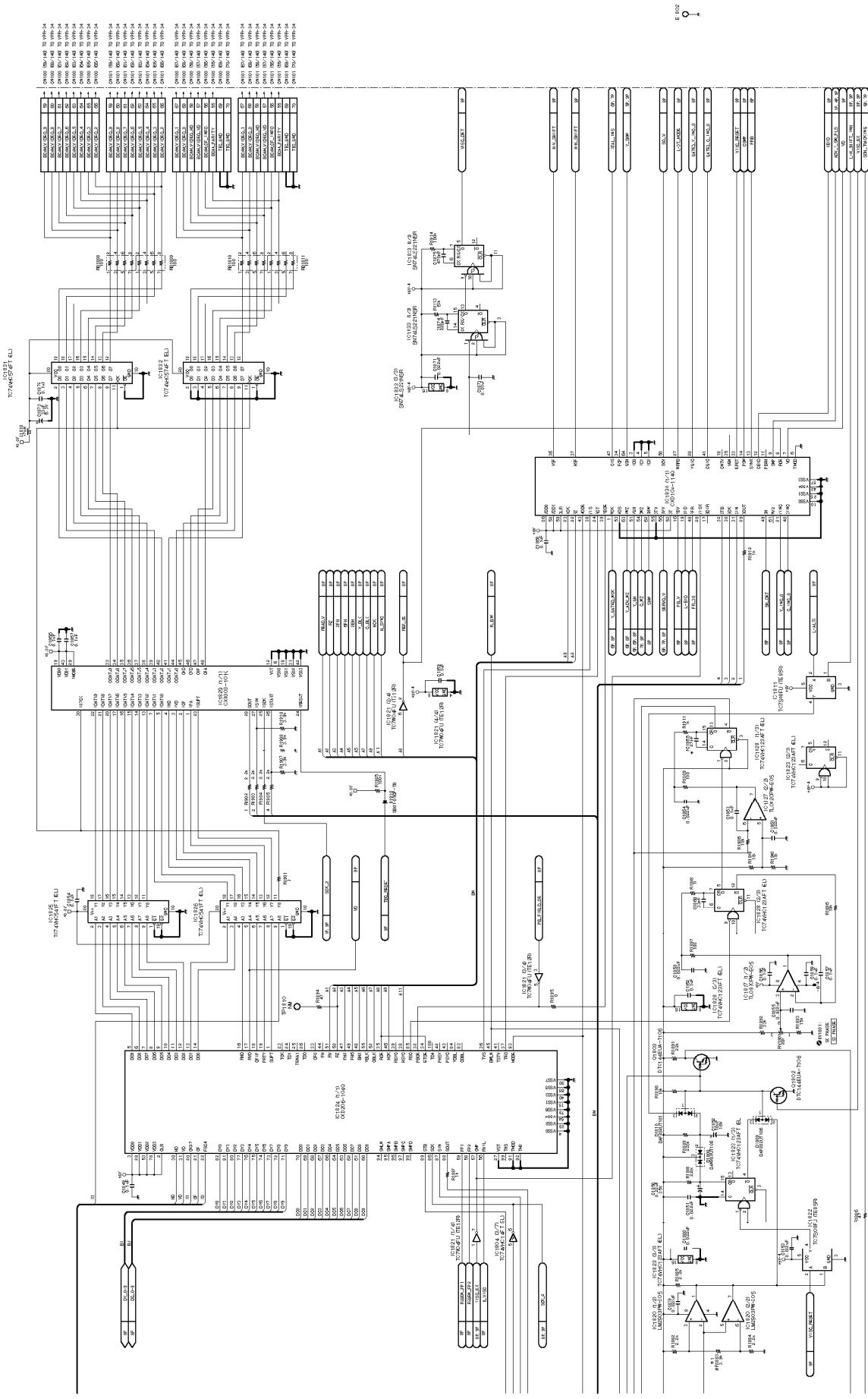
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DNV-A08
DNV-A29P



RF demodulator for analog Betacam PB, TBC
DM-114/114P (9/9)
BOARD NO. 1-667-547-13
LOT NO. 905
DWM-A221-DM-114-013

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BS BUS-10000



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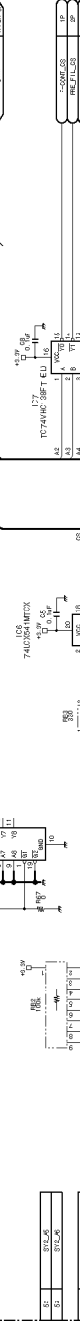
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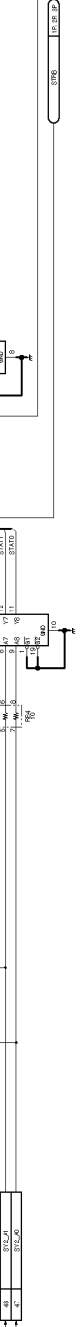
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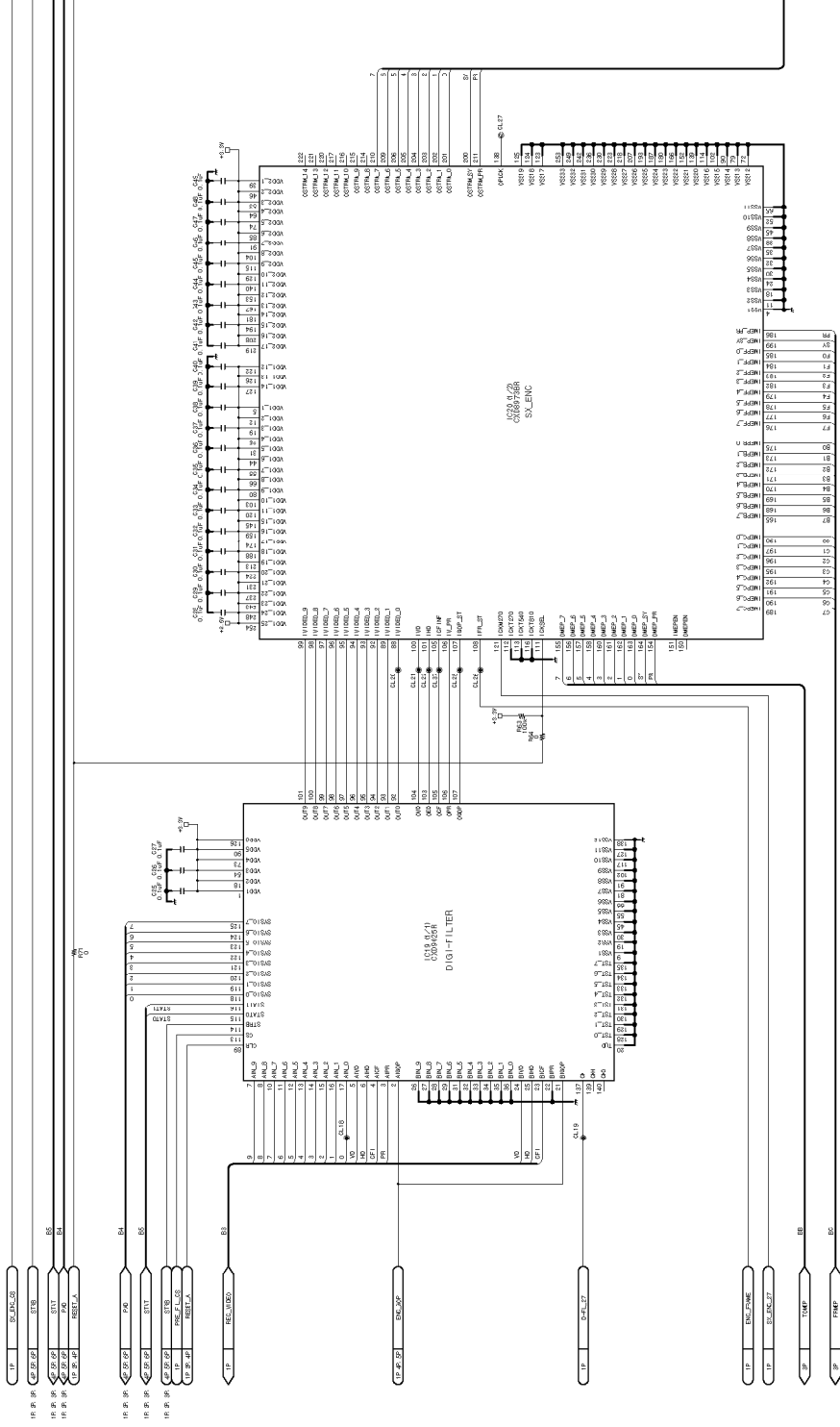


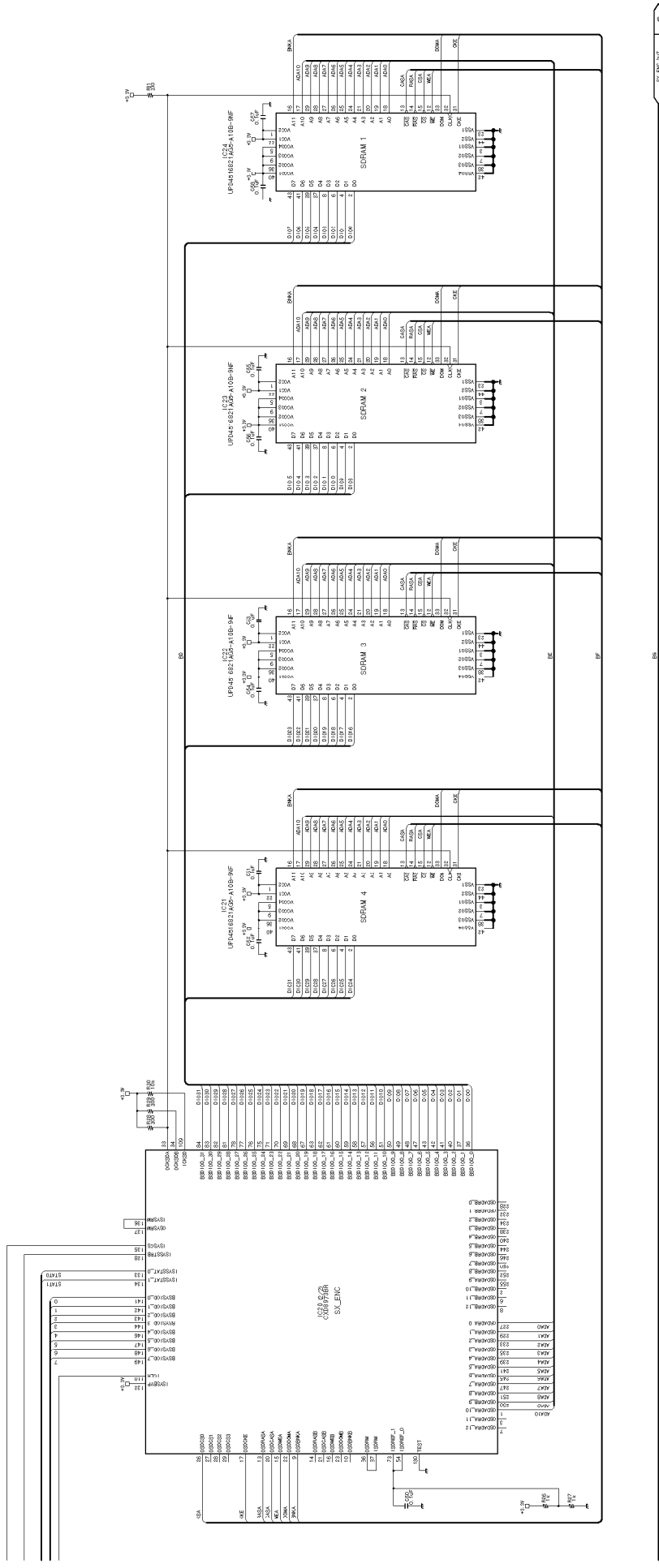
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RF demodulator for analog Belcam PB, TBC

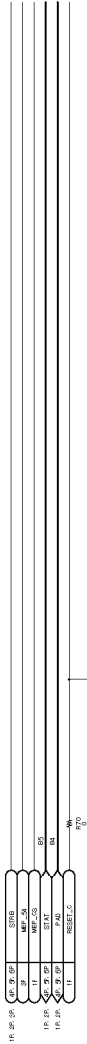
DPR-87 (2/6)

BOARD NO. 1-667-475-13

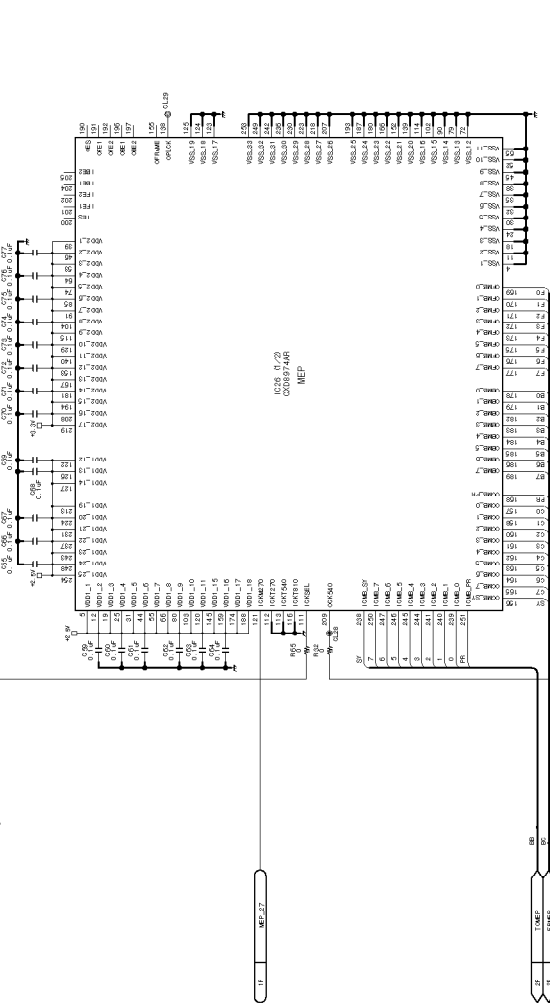
LOT NO. 905

DW-A22, DPR-87_001

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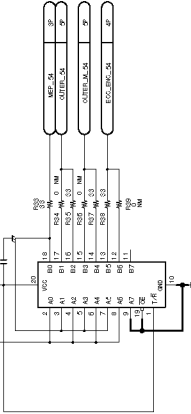


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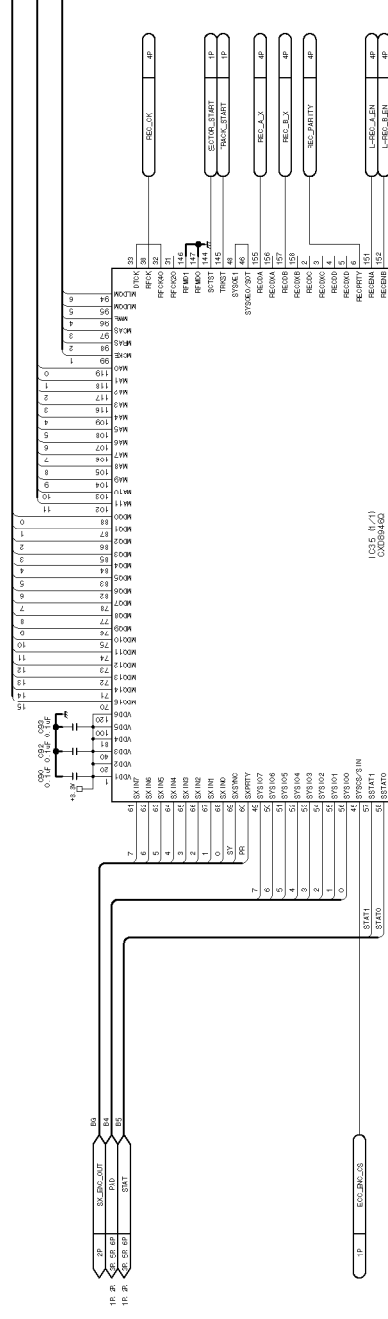
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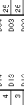
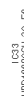
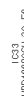
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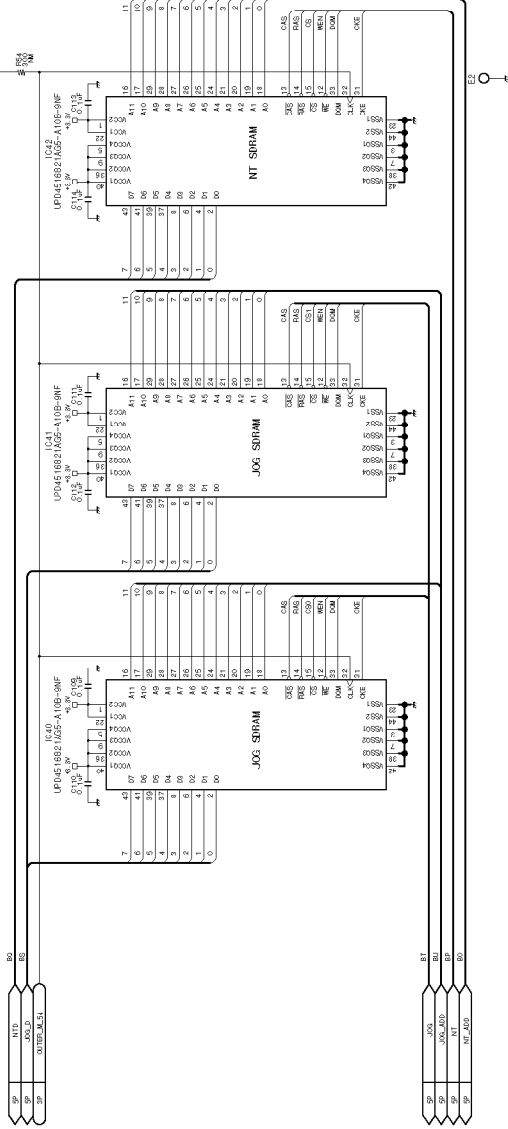
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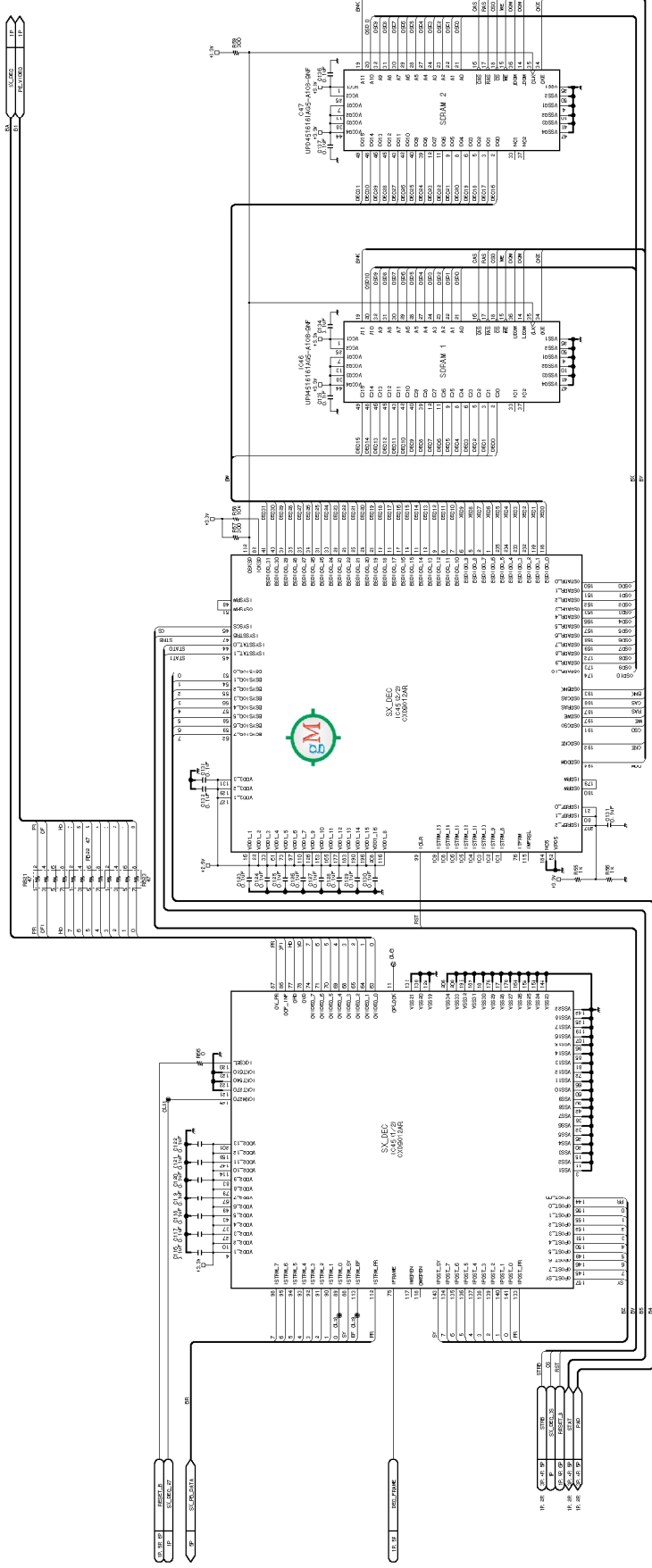
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RF demodulator for analog Belecram PE, TBC
DPR-87 (5/6)
BOARD NO. 1-667-475-13
LOT NO. 905
DWM-A222_DPR-87_001



RF demodulator for analog Betacam PB, TBC
DPR-87 (6/6)
BOARD NO. 1667-475-13
LCT NO. 905-
DNV-A230 DPR-87.001

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4-54

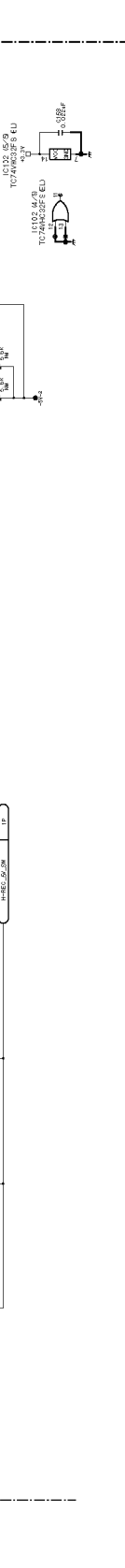
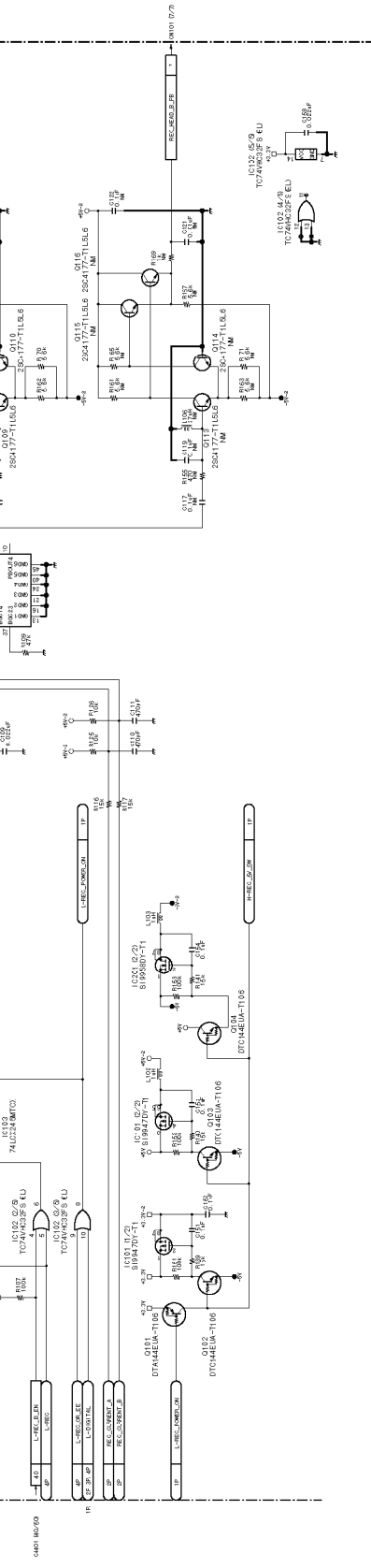
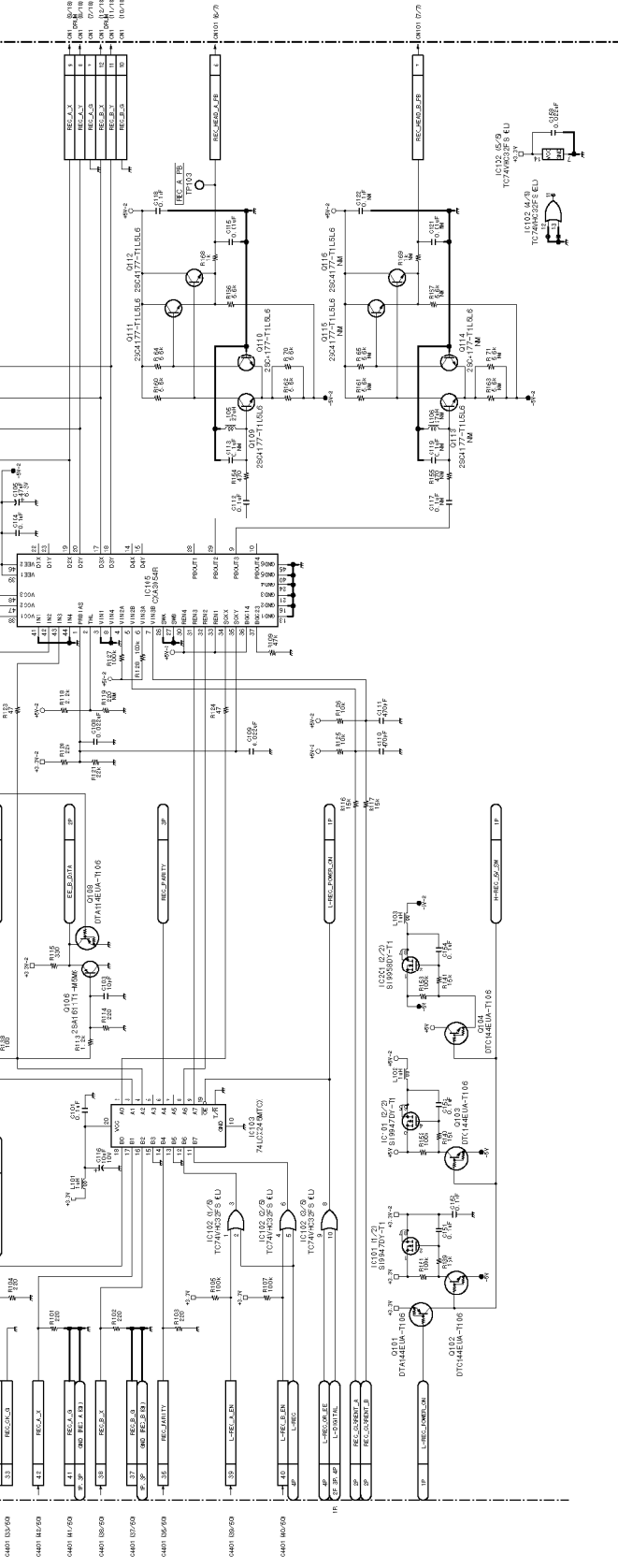
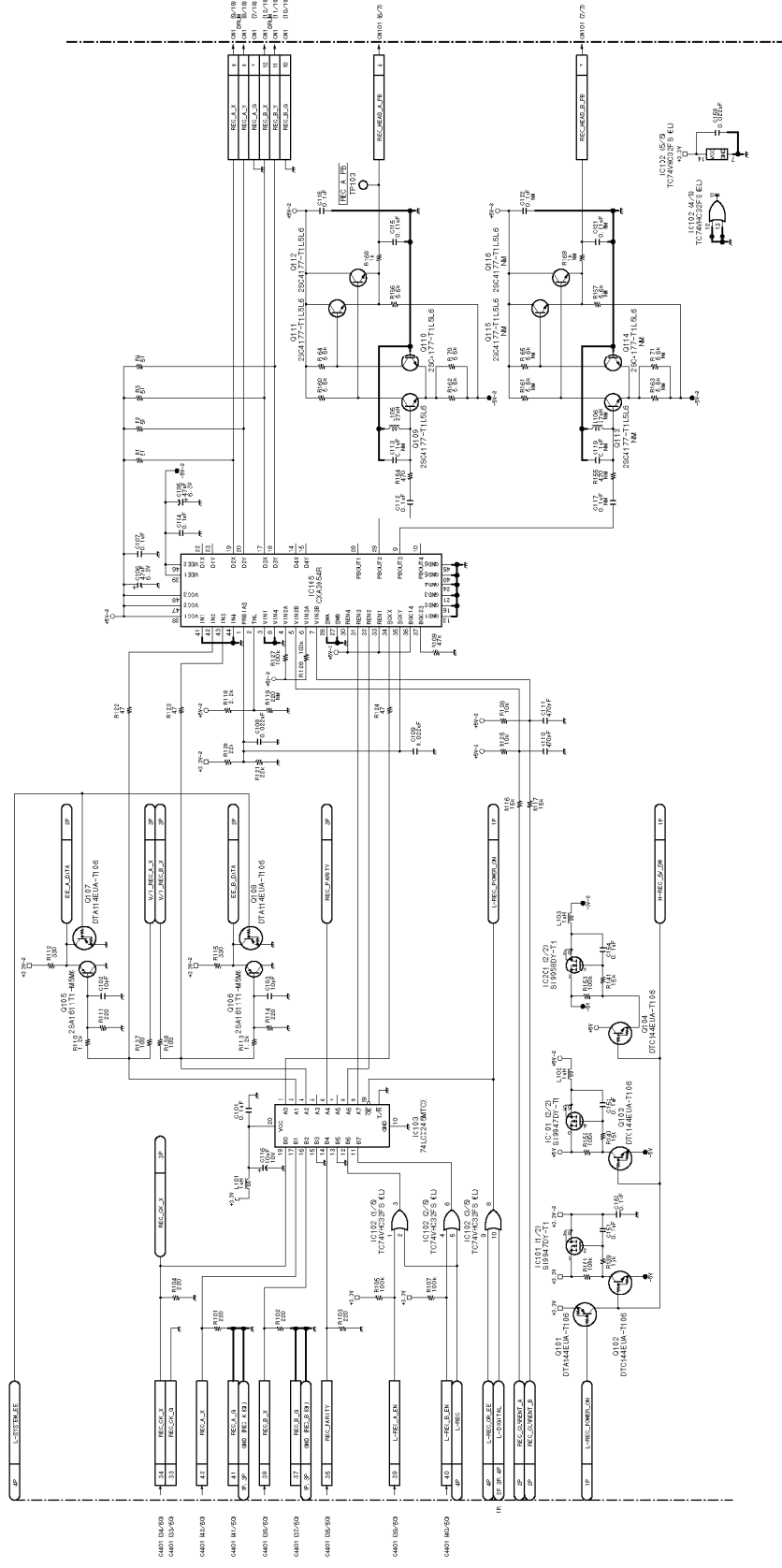
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DNV-A28
DNV-A29P
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EQ-72 (1/4)



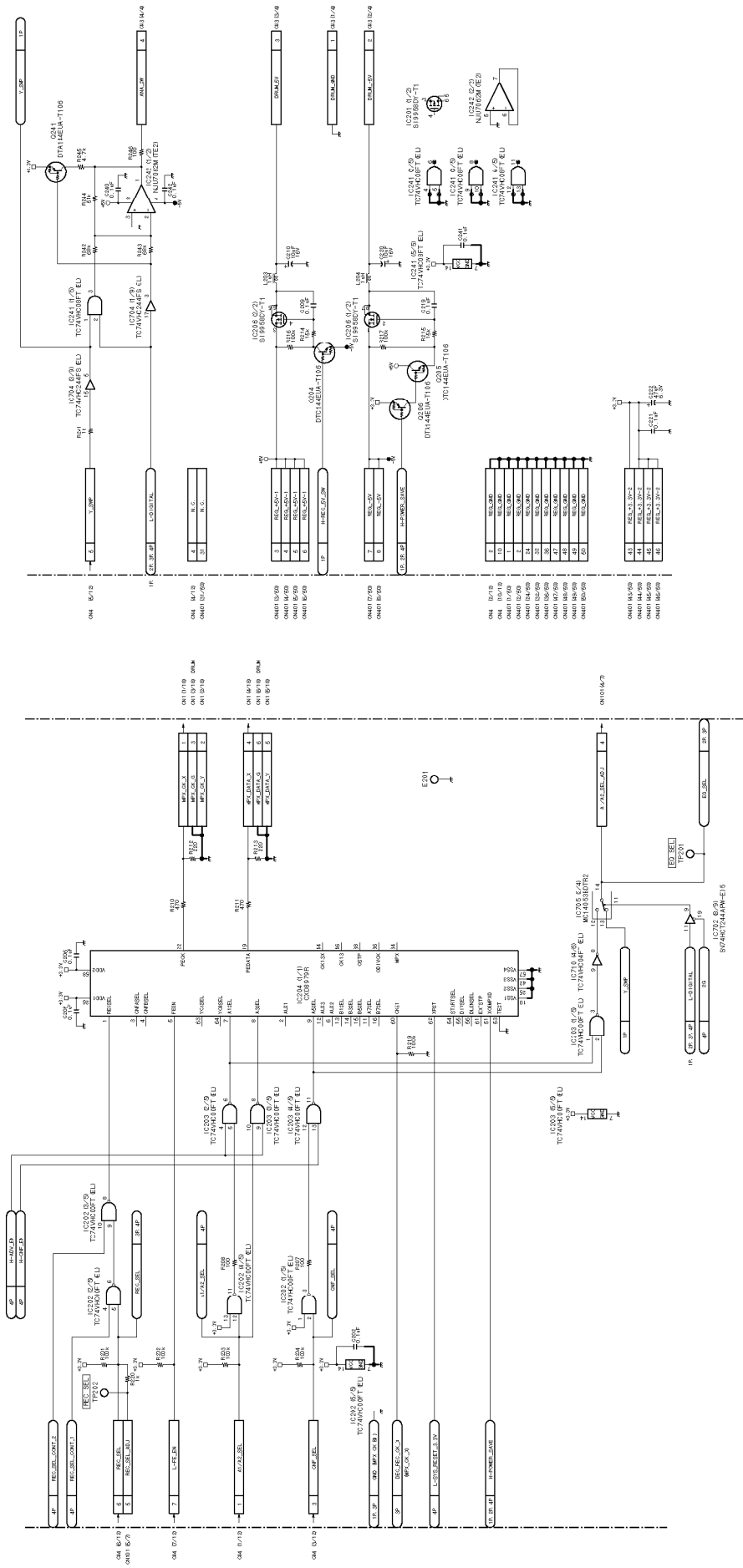
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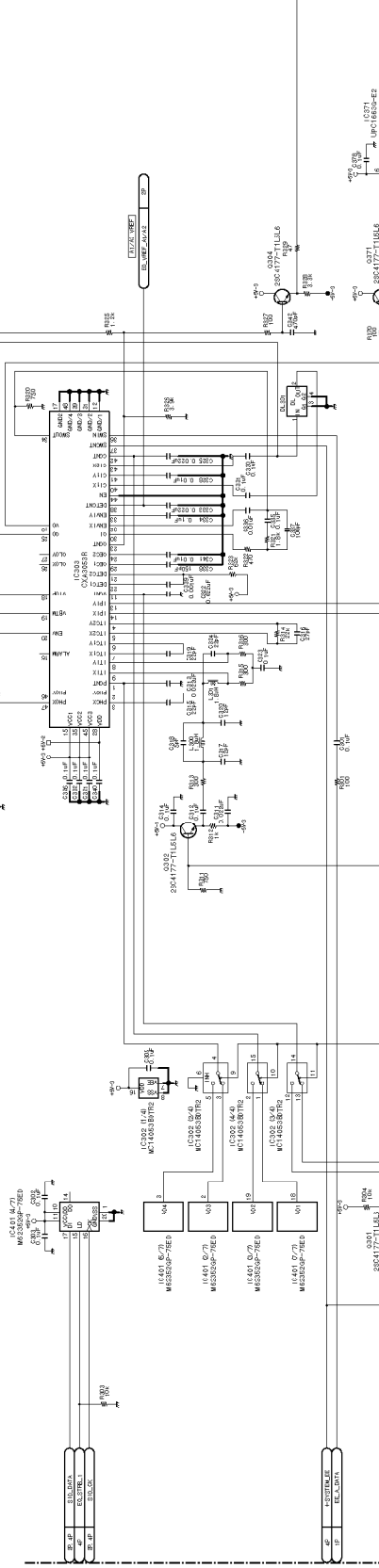
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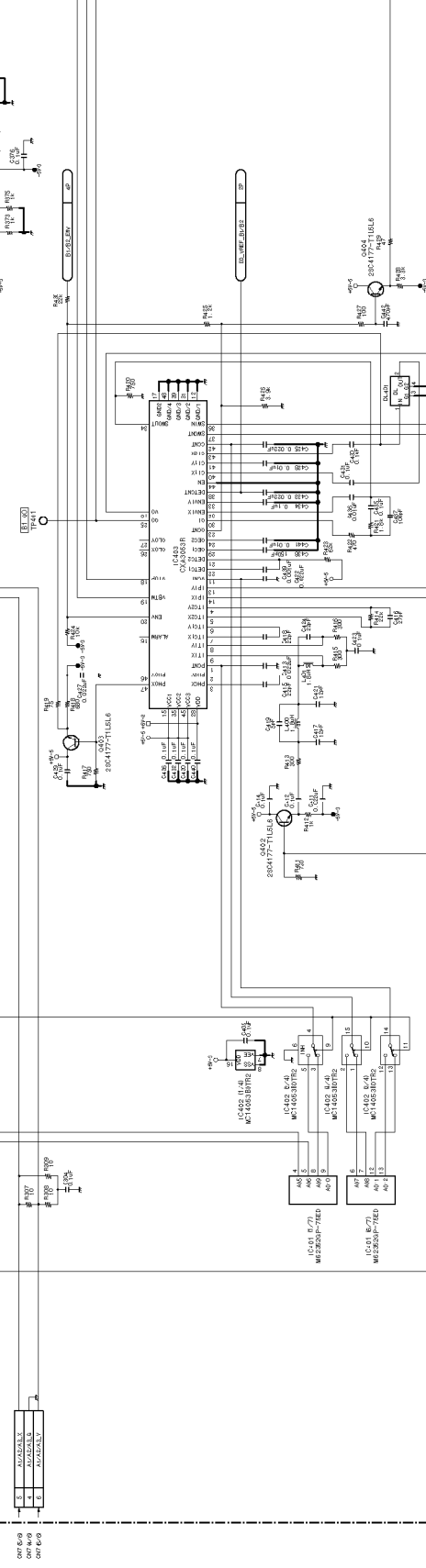
RF equalizer
REC current control, FB EQ, Analog Belacam FB buffer
Inner error correction
EQ-72 (1/4)
BOARD NO. 1-867-672-13
LOT NO. 905-
DMM-A220 EQ 72_001

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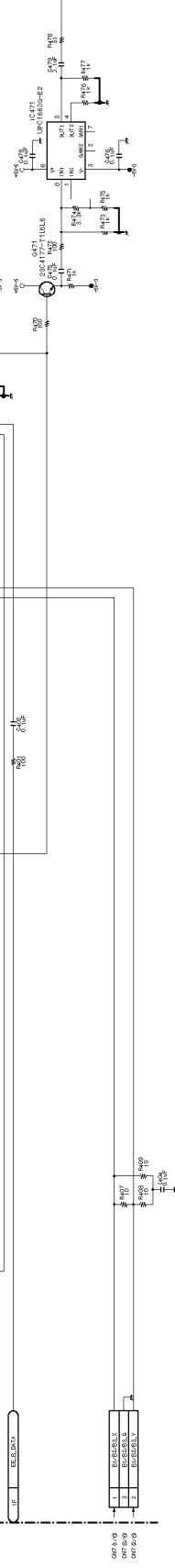
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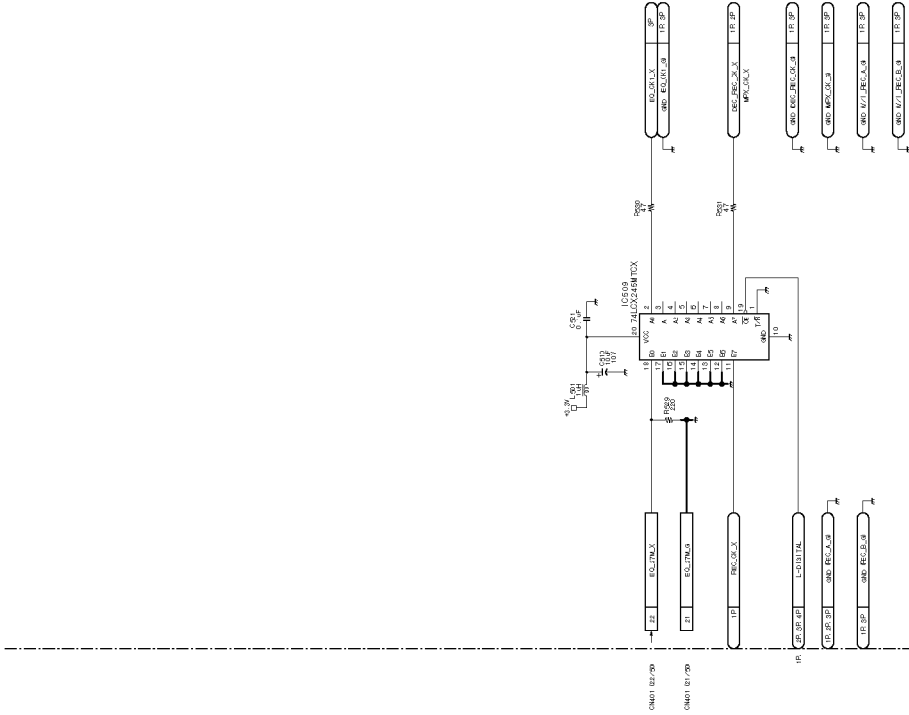
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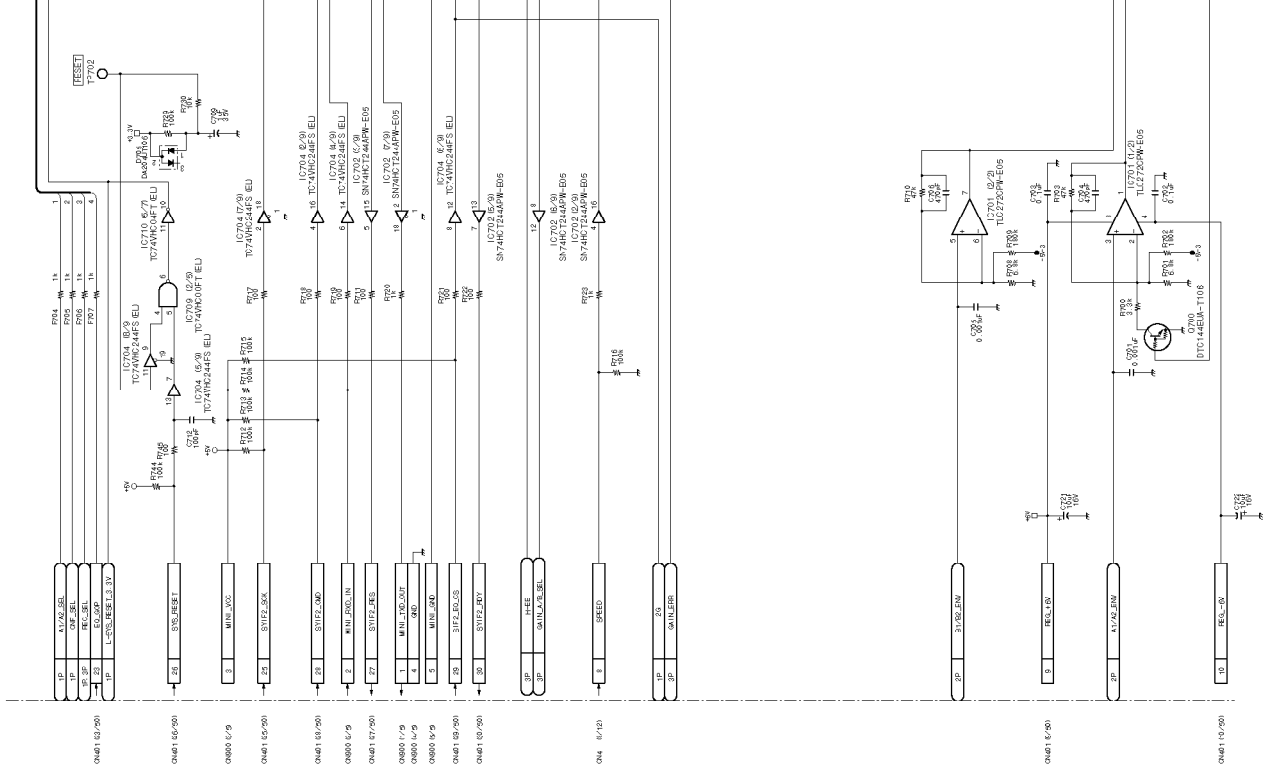
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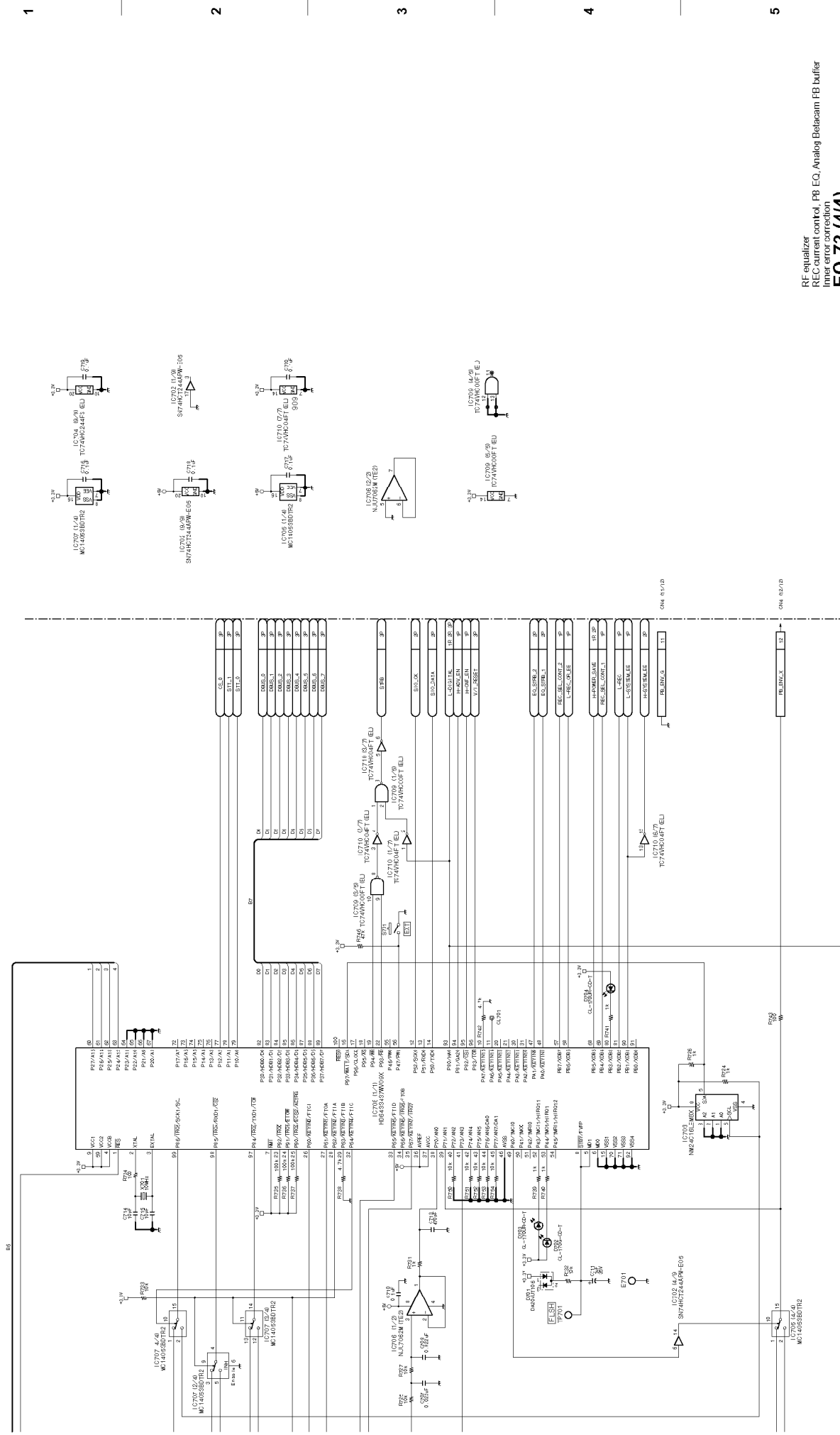
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RF equalizer
REC current control, FB EQ, Analog Belacam FB buffer
Inner error correction
EQ-72 (4/4)
BOARD NO. 1-867-672-13
LOT NO. 985-
DNR-A20 EQ 2_001

1



DNW-A28
DNW-A23F

SDI-23

TG-191

[illegible][illegible]

REF NAME		LEVEL	I/O	3 SIGNAL	3 SIGNAL	REF NAME	LEVEL	I/O	3 SIGNAL	3 SIGNAL	REF NAME
CH01-27	OUT	1	TRC-20	1	TRC-20	CH01-28	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-29	OUT	1	TRC-20	1	TRC-20	CH01-30	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-31	OUT	1	TRC-20	1	TRC-20	CH01-32	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-33	OUT	1	TRC-20	1	TRC-20	CH01-34	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-35	OUT	1	TRC-20	1	TRC-20	CH01-36	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-37	OUT	1	TRC-20	1	TRC-20	CH01-38	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-39	OUT	1	TRC-20	1	TRC-20	CH01-40	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-41	OUT	1	TRC-20	1	TRC-20	CH01-42	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-43	OUT	1	TRC-20	1	TRC-20	CH01-44	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-45	OUT	1	TRC-20	1	TRC-20	CH01-46	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-47	OUT	1	TRC-20	1	TRC-20	CH01-48	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-49	OUT	1	TRC-20	1	TRC-20	CH01-50	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-51	OUT	1	TRC-20	1	TRC-20	CH01-52	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-53	OUT	1	TRC-20	1	TRC-20	CH01-54	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-55	OUT	1	TRC-20	1	TRC-20	CH01-56	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-57	OUT	1	TRC-20	1	TRC-20	CH01-58	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-59	OUT	1	TRC-20	1	TRC-20	CH01-60	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-61	OUT	1	TRC-20	1	TRC-20	CH01-62	OUT	1	TRC-20	1	TRC-20
	IN	2	TRC-20	2	TRC-20		IN	2	TRC-20	2	TRC-20
CH01-63	OUT	1	TRC-20	1	TRC-20	CH01-64	OUT	1	TRC-20</		

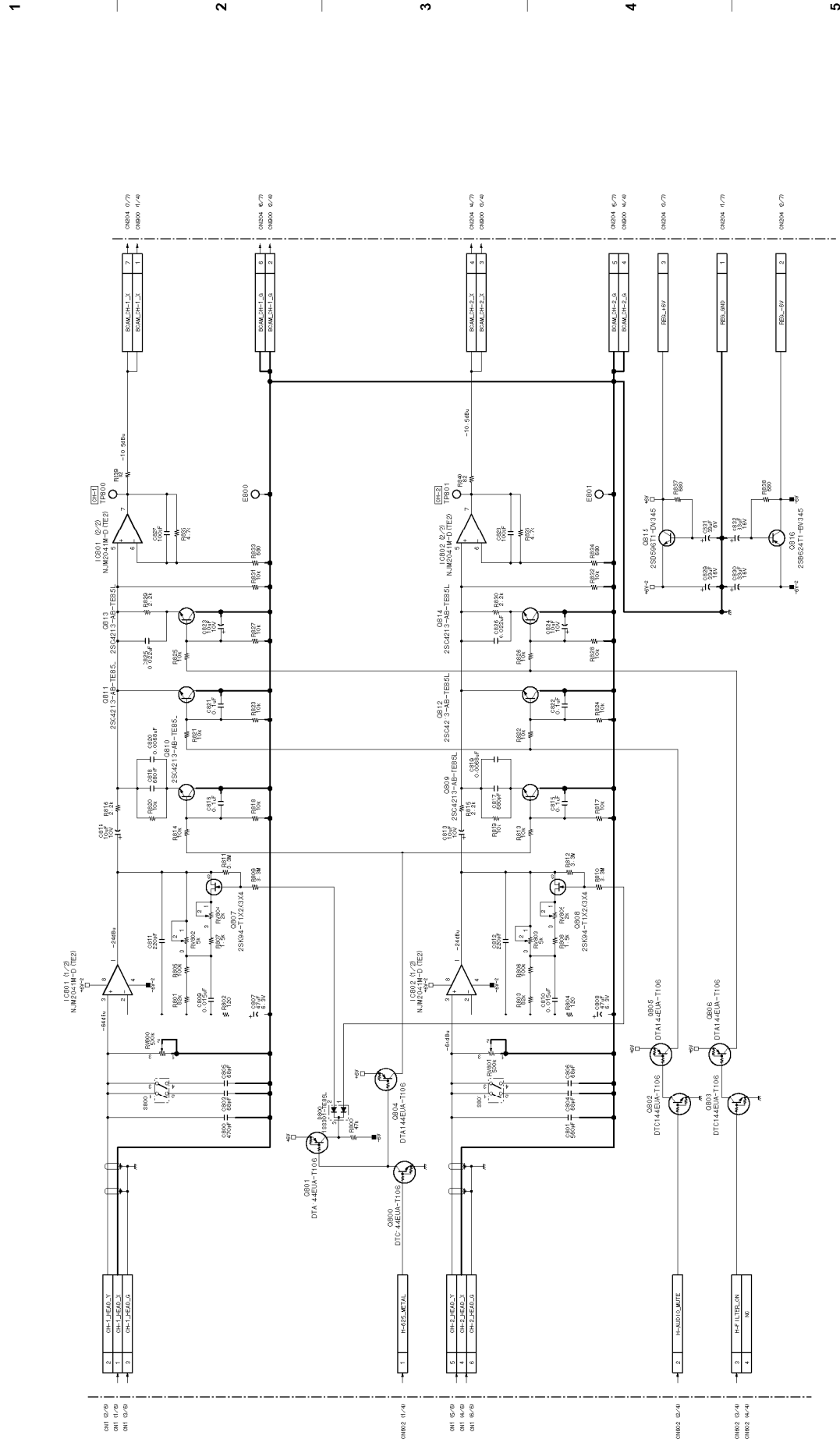
CH2						
DEFINITIONS	LEVEL	°/O	SIGNAL	SIGNAL	I/O	DEFINITIONS
CH2-1	45 3V	IN	1	CH2-201_50	OUT 45 3V	CH2-2
	45 3V	IN	5	CH2-201_50	OUT 45 3V	
CH2-3	45 3V	IN	9	CH2-202	IN 45 3V	CH2-4
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-6
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-7
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-8
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-9
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-10
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-11
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-12
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-13
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-14
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-15
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-16
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-17
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-18
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-19
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-20
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-21
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-22
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-23
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-24
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-25
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-26
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-27
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-28
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-29
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-30
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-31
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-32
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-33
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-34
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-35
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-36
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-37
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-38
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-39
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-40
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-41
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-42
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-43
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-44
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-45
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-46
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-47
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-48
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-49
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-50
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-51
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-52
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-53
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-54
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-55
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-56
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-57
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-58
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-59
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-60
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-61
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-62
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-63
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-64
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-65
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-66
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-67
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-68
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-69
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-70
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-71
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-72
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-73
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-74
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-75
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-76
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-77
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-78
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-79
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-80
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-81
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-82
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-83
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-84
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-85
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-86
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-87
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-88
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-89
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-90
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-91
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-92
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-93
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-94
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-95
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-96
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-97
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-98
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-99
CH2-5	45 3V	OUT	7	CH2-204	OUT 45 3V	CH2-100

APR-27A

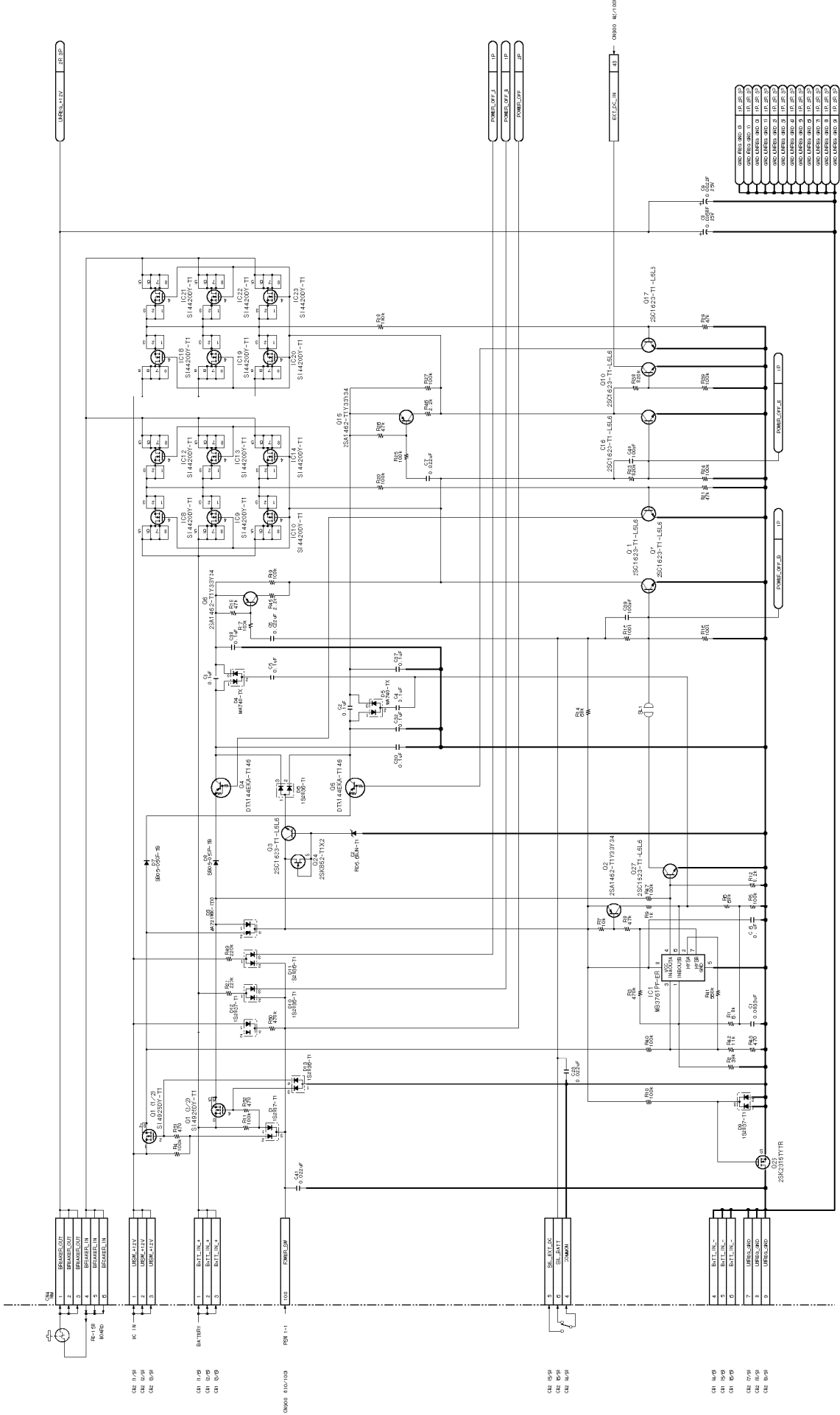
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LEVEL	I/O	SIGNAL	LEVEL	I/O	DEFINITIONS
0N01-23	IN	1 AUDIO_SND	IN	IN	
0N01-24	IN	2 AUDIO_SND	IN	IN	
0N01-25	IN	3 AUDIO_SND	IN	IN	
0N01-26	IN	4 AUDIO_SND	IN	IN	
0N01-27	IN	5 AUDIO_SND	IN	IN	
0N01-28	IN	6 AUDIO_SND	IN	IN	
0N01-29	IN	7 AUDIO_SND	IN	IN	
0N01-30	IN	8 AUDIO_SND	IN	IN	
0N01-31	IN	9 AUDIO_SND	IN	IN	
0N01-32	IN	10 AUDIO_SND	IN	IN	
0N01-33	IN	11 AUDIO_SND	IN	IN	
0N01-34	IN	12 AUDIO_SND	IN	IN	
0N01-35	IN	13 AUDIO_SND	IN	IN	
0N01-36	IN	14 AUDIO_SND	IN	IN	
0N01-37	IN	15 AUDIO_SND	IN	IN	
0N01-38	IN	16 AUDIO_SND	IN	IN	
0N01-39	IN	17 AUDIO_SND	IN	IN	
0N01-40	IN	18 AUDIO_SND	IN	IN	
0N01-41	IN	19 AUDIO_SND	IN	IN	
0N01-42	IN	20 AUDIO_SND	IN	IN	
0N01-43	IN	21 AUDIO_SND	IN	IN	
0N01-44	IN	22 AUDIO_SND	IN	IN	
0N01-45	IN	23 AUDIO_SND	IN	IN	
0N01-46	IN	24 AUDIO_SND	IN	IN	
0N01-47	IN	25 AUDIO_SND	IN	IN	
0N01-48	IN	26 AUDIO_SND	IN	IN	
0N01-49	IN	27 AUDIO_SND	IN	IN	
0N01-50	IN	28 AUDIO_SND	IN	IN	
0N01-51	IN	29 AUDIO_SND	IN	IN	
0N01-52	IN	30 AUDIO_SND	IN	IN	
0N01-53	IN	31 AUDIO_SND	IN	IN	
0N01-54	IN	32 AUDIO_SND	IN	IN	
0N01-55	IN	33 AUDIO_SND	IN	IN	
0N01-56	IN	34 AUDIO_SND	IN	IN	
0N01-57	IN	35 AUDIO_SND	IN	IN	
0N01-58	IN	36 AUDIO_SND	IN	IN	
0N01-59	IN	37 AUDIO_SND	IN	IN	
0N01-60	IN	38 AUDIO_SND	IN	IN	
0N01-61	IN	39 AUDIO_SND	IN	IN	
0N01-62	IN	40 AUDIO_SND	IN	IN	
0N01-63	IN	41 AUDIO_SND	IN	IN	
0N01-64	IN	42 AUDIO_SND	IN	IN	
0N01-65	IN	43 AUDIO_SND	IN	IN	
0N01-66	IN	44 AUDIO_SND	IN	IN	
0N01-67	IN	45 AUDIO_SND	IN	IN	
0N01-68	IN	46 AUDIO_SND	IN	IN	
0N01-69	IN	47 AUDIO_SND	IN	IN	
0N01-70	IN	48 AUDIO_SND	IN	IN	
0N01-71	IN	49 AUDIO_SND	IN	IN	
0N01-72	IN	50 AUDIO_SND	IN	IN	
0N01-73	IN	51 AUDIO_SND	IN	IN	
0N01-74	IN	52 AUDIO_SND	IN	IN	
0N01-75	IN	53 AUDIO_SND	IN	IN	
0N01-76	IN	54 AUDIO_SND	IN	IN	
0N01-77	IN	55 AUDIO_SND	IN	IN	
0N01-78	IN	56 AUDIO_SND	IN	IN	
0N01-79	IN	57 AUDIO_SND	IN	IN	
0N01-80	IN	58 AUDIO_SND	IN	IN	
0N01-81	IN	59 AUDIO_SND	IN	IN	
0N01-82	IN	60 AUDIO_SND	IN	IN	
0N01-83	IN	61 AUDIO_SND	IN	IN	
0N01-84	IN	62 AUDIO_SND	IN	IN	
0N01-85	IN	63 AUDIO_SND	IN	IN	
0N01-86	IN	64 AUDIO_SND	IN	IN	
0N01-87	IN	65 AUDIO_SND	IN	IN	
0N01-88	IN	66 AUDIO_SND	IN	IN	
0N01-89	IN	67 AUDIO_SND	IN	IN	
0N01-90	IN	68 AUDIO_SND	IN	IN	
0N01-91	IN	69 AUDIO_SND	IN	IN	
0N01-92	IN	70 AUDIO_SND	IN	IN	
0N01-93	IN	71 AUDIO_SND	IN	IN	
0N01-94	IN	72 AUDIO_SND	IN	IN	
0N01-95	IN	73 AUDIO_SND	IN	IN	

AU-249

DEFINITIONS			UNO1		
LEVEL	I/O	SIGNAL	LEVEL	I/O	DEFINITIONS
0N01-23	IN	1 AUDIO_SND	IN	IN	
0N01-24	IN	2 AUDIO_SND	IN	IN	
0N01-25	IN	3 AUDIO_SND	IN	IN	
0N01-26	IN	4 AUDIO_SND	IN	IN	
0N01-27	IN	5 AUDIO_SND	IN	IN	
0N01-28	IN	6 AUDIO_SND	IN	IN	
0N01-29	IN	7 AUDIO_SND	IN	IN	
0N01-30	IN	8 AUDIO_SND	IN	IN	
0N01-31	IN	9 AUDIO_SND	IN	IN	
0N01-32	IN	10 AUDIO_SND	IN	IN	
0N01-33	IN	11 AUDIO_SND	IN	IN	
0N01-34	IN	12 AUDIO_SND	IN	IN	
0N01-35	IN	13 AUDIO_SND	IN	IN	
0N01-36	IN	14 AUDIO_SND	IN	IN	
0N01-37	IN	15 AUDIO_SND	IN	IN	
0N01-38	IN	16 AUDIO_SND	IN	IN	
0N01-39	IN	17 AUDIO_SND	IN	IN	
0N01-40	IN	18 AUDIO_SND	IN	IN	
0N01-41	IN	19 AUDIO_SND	IN	IN	
0N01-42	IN	20 AUDIO_SND	IN	IN	
0N01-43	IN	21 AUDIO_SND	IN	IN	
0N01-44	IN	22 AUDIO_SND	IN	IN	
0N01-45	IN	23 AUDIO_SND	IN	IN	
0N01-46	IN	24 AUDIO_SND	IN	IN	
0N01-47	IN	25 AUDIO_SND	IN	IN	
0N01-48	IN	26 AUDIO_SND	IN	IN	
0N01-49	IN	27 AUDIO_SND	IN	IN	
0N01-50	IN	28 AUDIO_SND	IN	IN	
0N01-51	IN	29 AUDIO_SND	IN	IN	
0N01-52	IN	30 AUDIO_SND	IN	IN	
0N01-53	IN	31 AUDIO_SND	IN	IN	
0N01-54	IN	32 AUDIO_SND	IN	IN	
0N01-55	IN	33 AUDIO_SND	IN	IN	
0N01-56	IN	34 AUDIO_SND	IN	IN	
0N01-57	IN	35 AUDIO_SND	IN	IN	
0N01-58	IN	36 AUDIO_SND	IN	IN	
0N01-59	IN	37 AUDIO_SND	IN	IN	
0N01-60	IN	38 AUDIO_SND	IN	IN	
0N01-61	IN	39 AUDIO_SND	IN	IN	
0N01-62	IN	40 AUDIO_SND	IN	IN	
0N01-63	IN	41 AUDIO_SND	IN	IN	
0N01-64	IN	42 AUDIO_SND	IN	IN	
0N01-65	IN	43 AUDIO_SND	IN	IN	
0N01-66	IN	44 AUDIO_SND	IN	IN	
0N01-67	IN	45 AUDIO_SND	IN	IN	
0N01-68	IN	46 AUDIO_SND	IN	IN	
0N01-69	IN	47 AUDIO_SND	IN	IN	
0N01-70	IN	48 AUDIO_SND	IN	IN	
0N01-71	IN	49 AUDIO_SND	IN	IN	
0N01-72	IN	50 AUDIO_SND	IN	IN	
0N01-73	IN	51 AUDIO_SND	IN	IN	
0N01-74	IN	52 AUDIO_SND	IN	IN	
0N01-75	IN	53 AUDIO_SND	IN	IN	
0N01-76	IN	54 AUDIO_SND	IN	IN	
0N01-77	IN	55 AUDIO_SND	IN	IN	
0N01-78	IN	56 AUDIO_SND	IN	IN	
0N01-79	IN	57 AUDIO_SND	IN	IN	
0N01-80	IN	58 AUDIO_SND	IN	IN	
0N01-81	IN	59 AUDIO_SND	IN	IN	
0N01-82	IN	60 AUDIO_SND	IN	IN	
0N01-83	IN	61 AUDIO_SND	IN	IN	
0N01-84	IN	62 AUDIO_SND	IN	IN	
0N01-85	IN	63 AUDIO_SND	IN	IN	
0N01-86	IN	64 AUDIO_SND	IN	IN	
0N01-87	IN	65 AUDIO_SND	IN	IN	
0N01-88	IN	66 AUDIO_SND	IN	IN	
0N01-89	IN	67 AUDIO_SND	IN	IN	
0N01-90	IN	68 AUDIO_SND	IN	IN	
0N01-91	IN	69 AUDIO_SND	IN	IN	
0N01-92	IN	70 AUDIO_SND	IN	IN	
0N01-93	IN	71 AUDIO_SND	IN	IN	
0N01-94	IN	72 AUDIO_SND	IN	IN	
0N01-95	IN	73 AUDIO_SND	IN	IN	

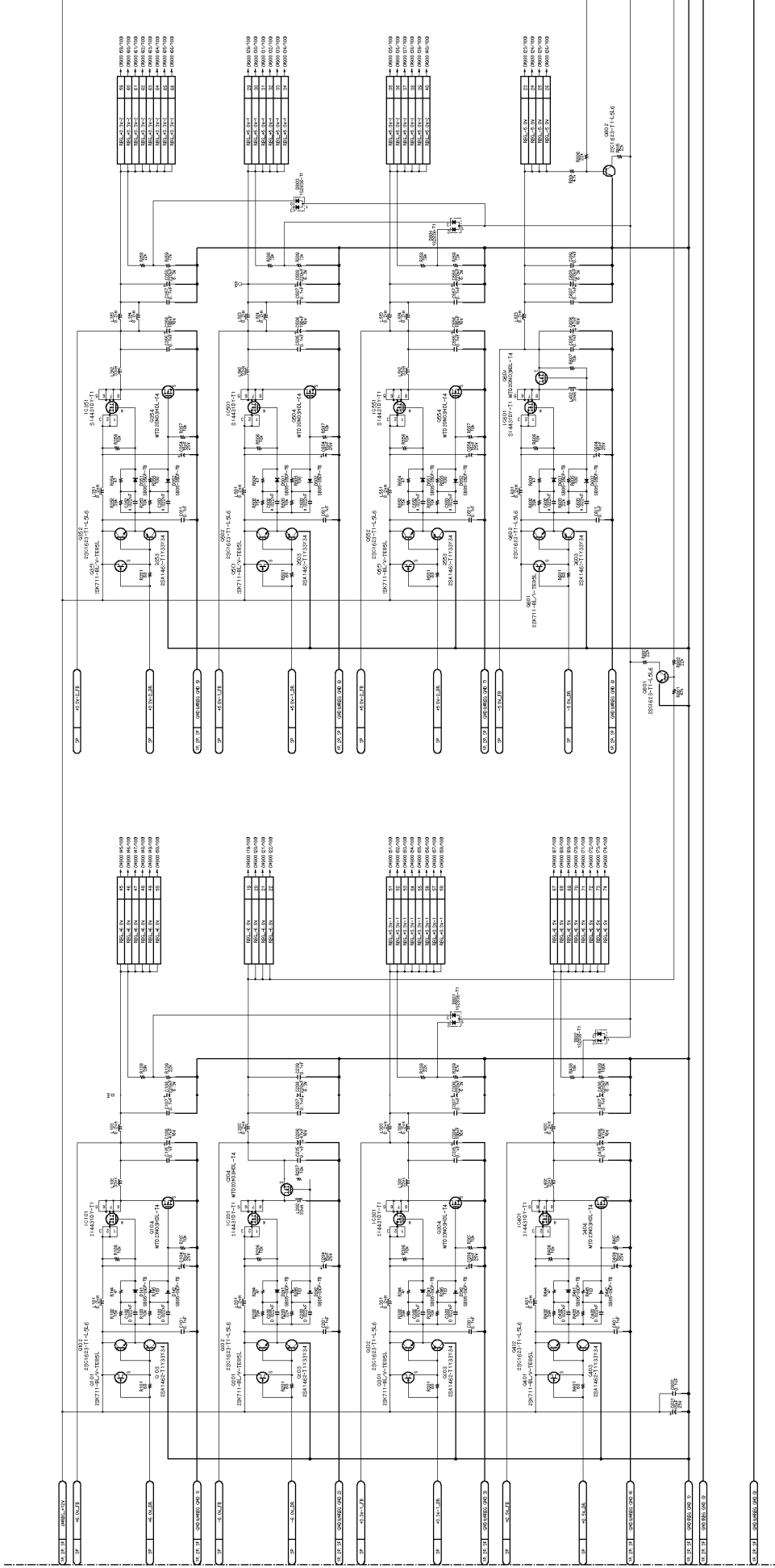






Switching regulator
RE-150 (1/3)
BOARD NO. 1-667-484-14
LOT NO. 905-
DHW-A22U-RE-150_001

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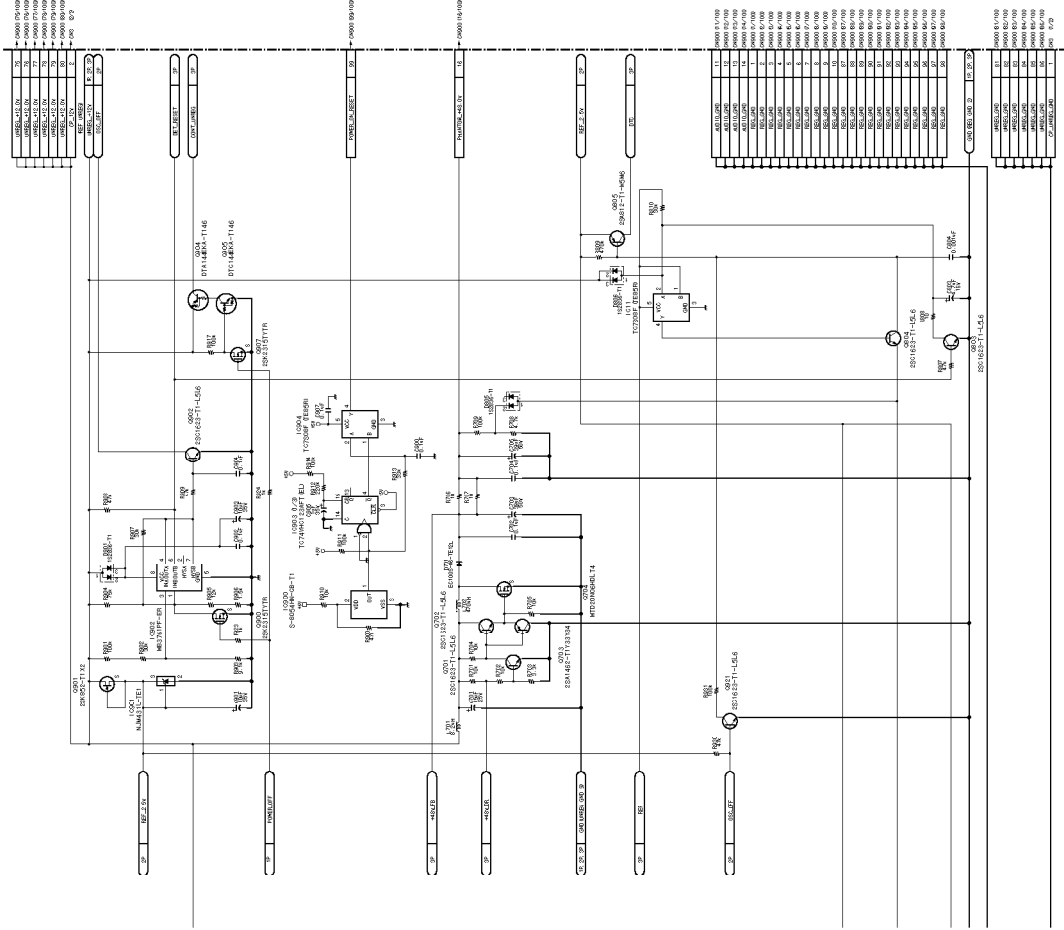
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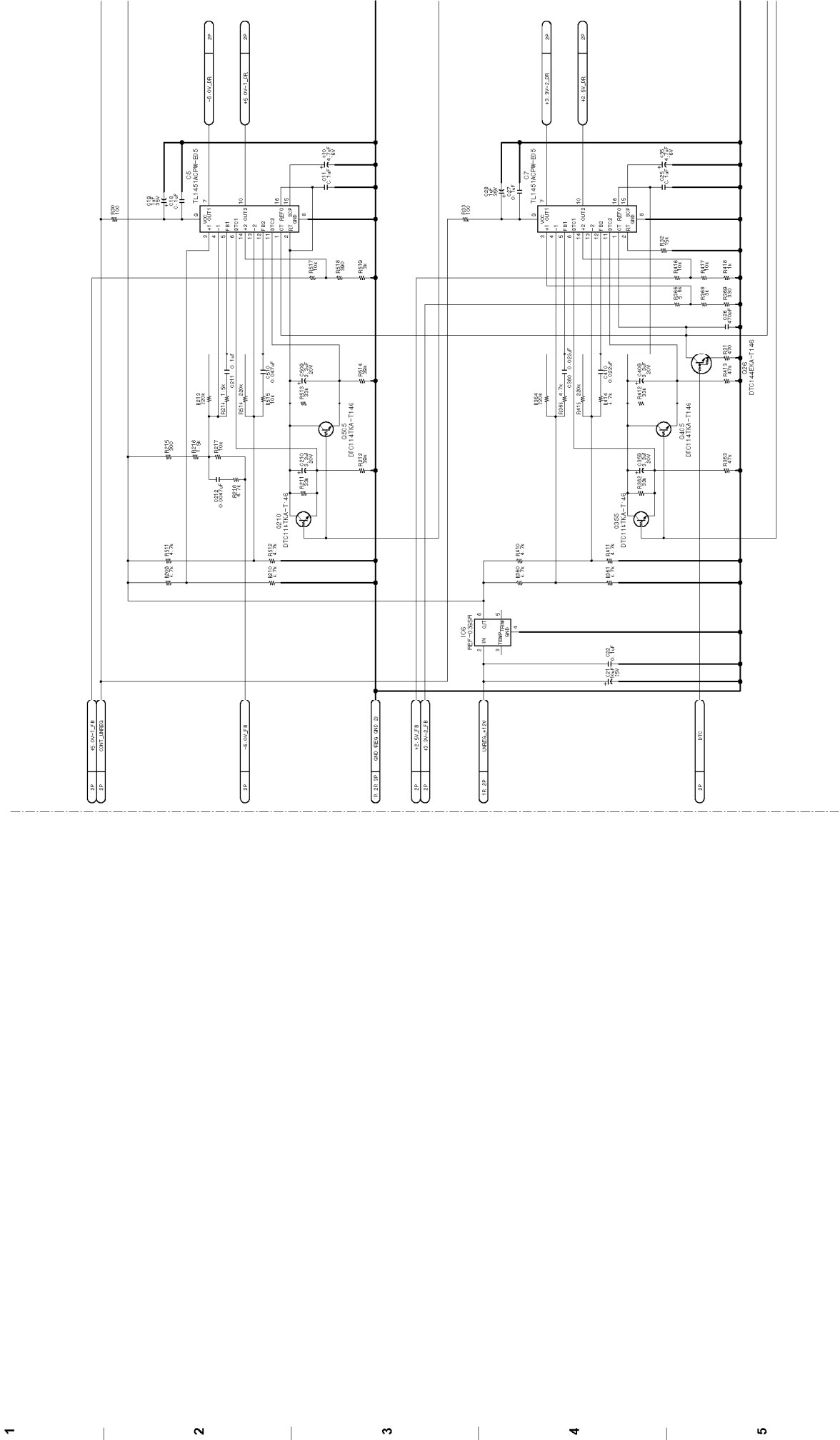
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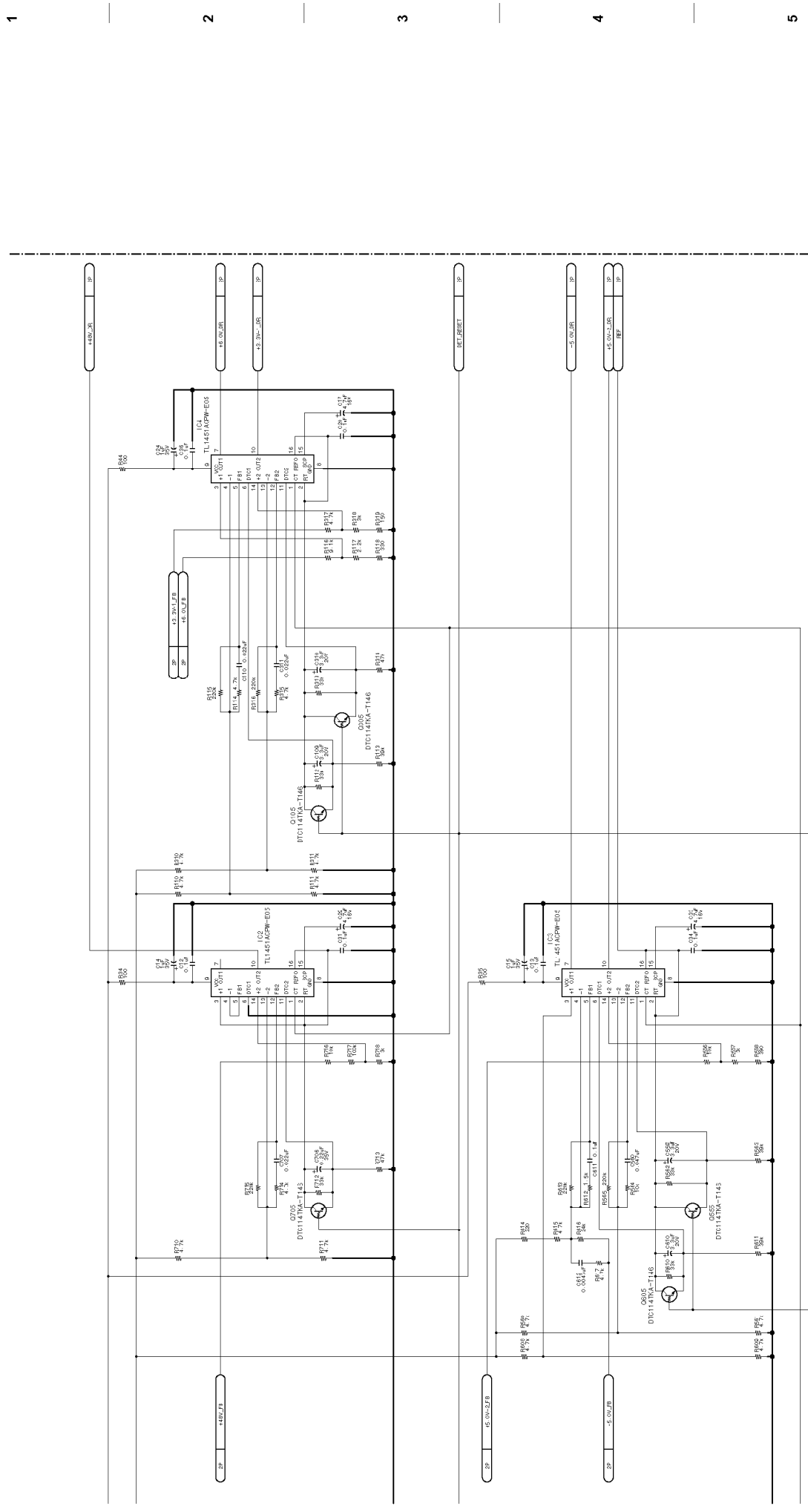
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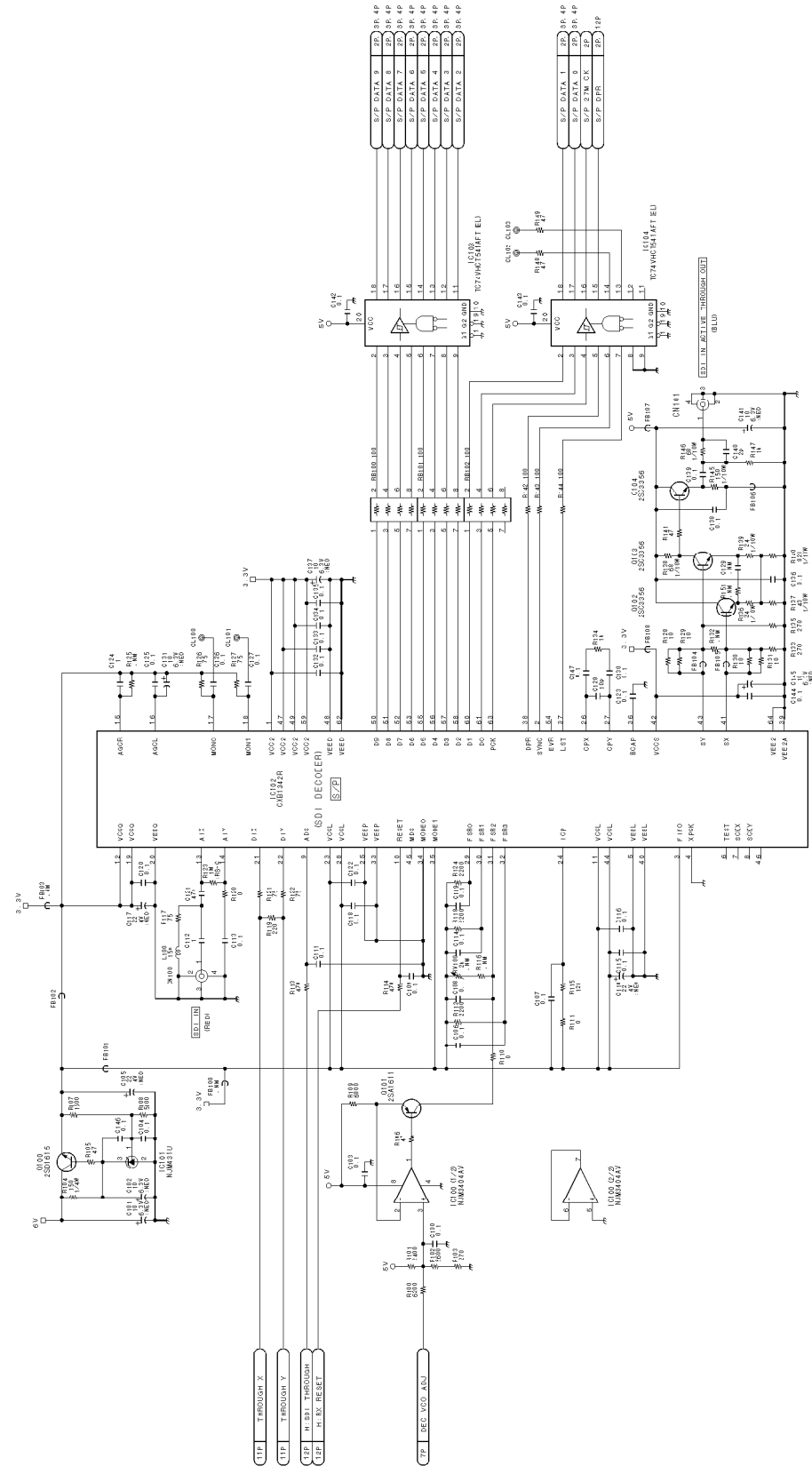
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4.22 component serial digital interface
SDI-23 (1/13)
BOARD NO. 1-667-485-12
LOT NO. 905-
B-MONWAZ20-SDI23-120

4-80

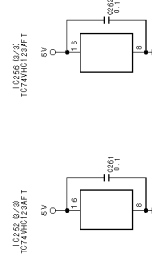
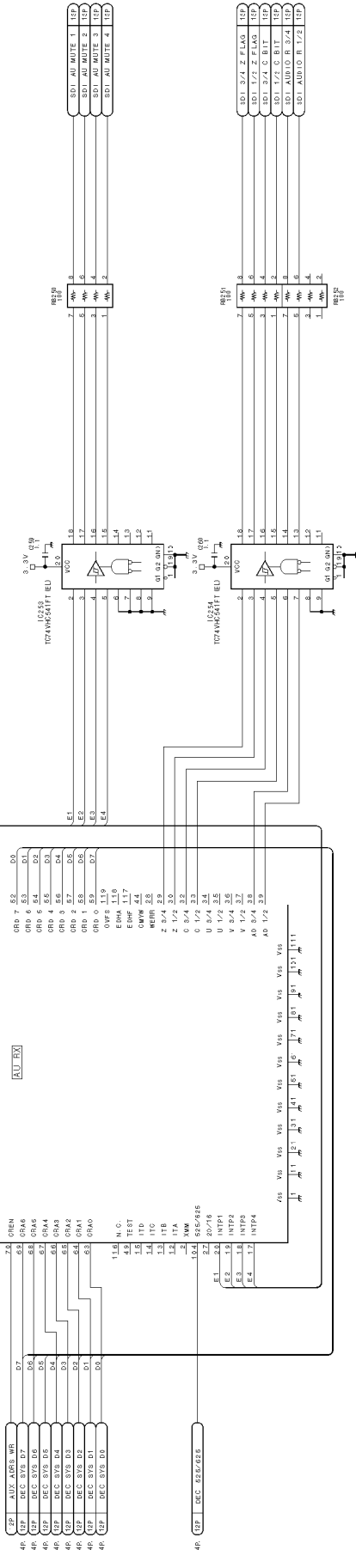
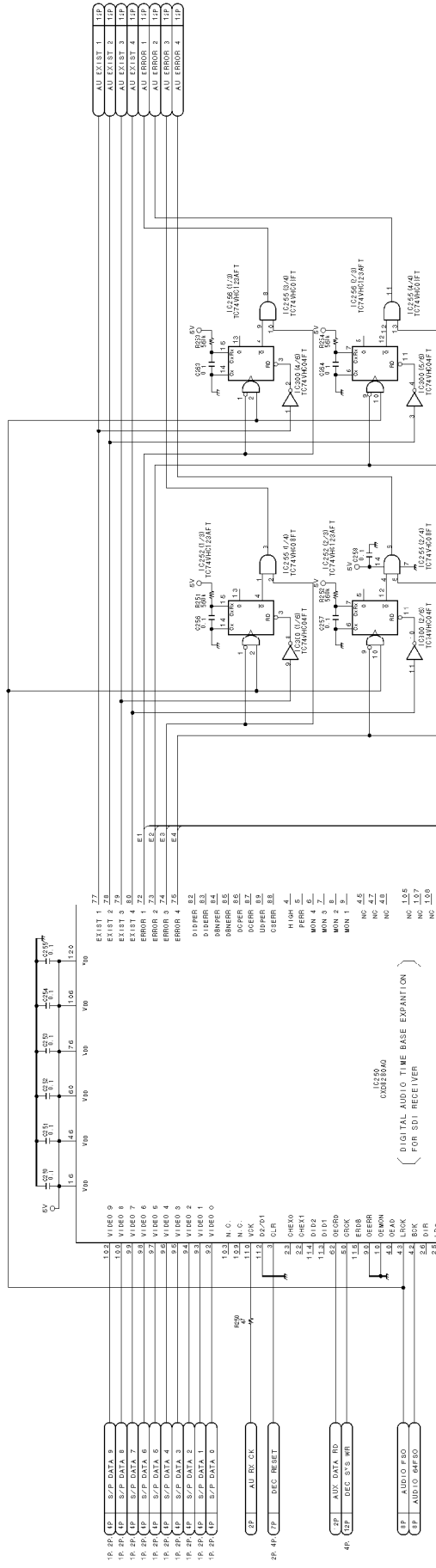
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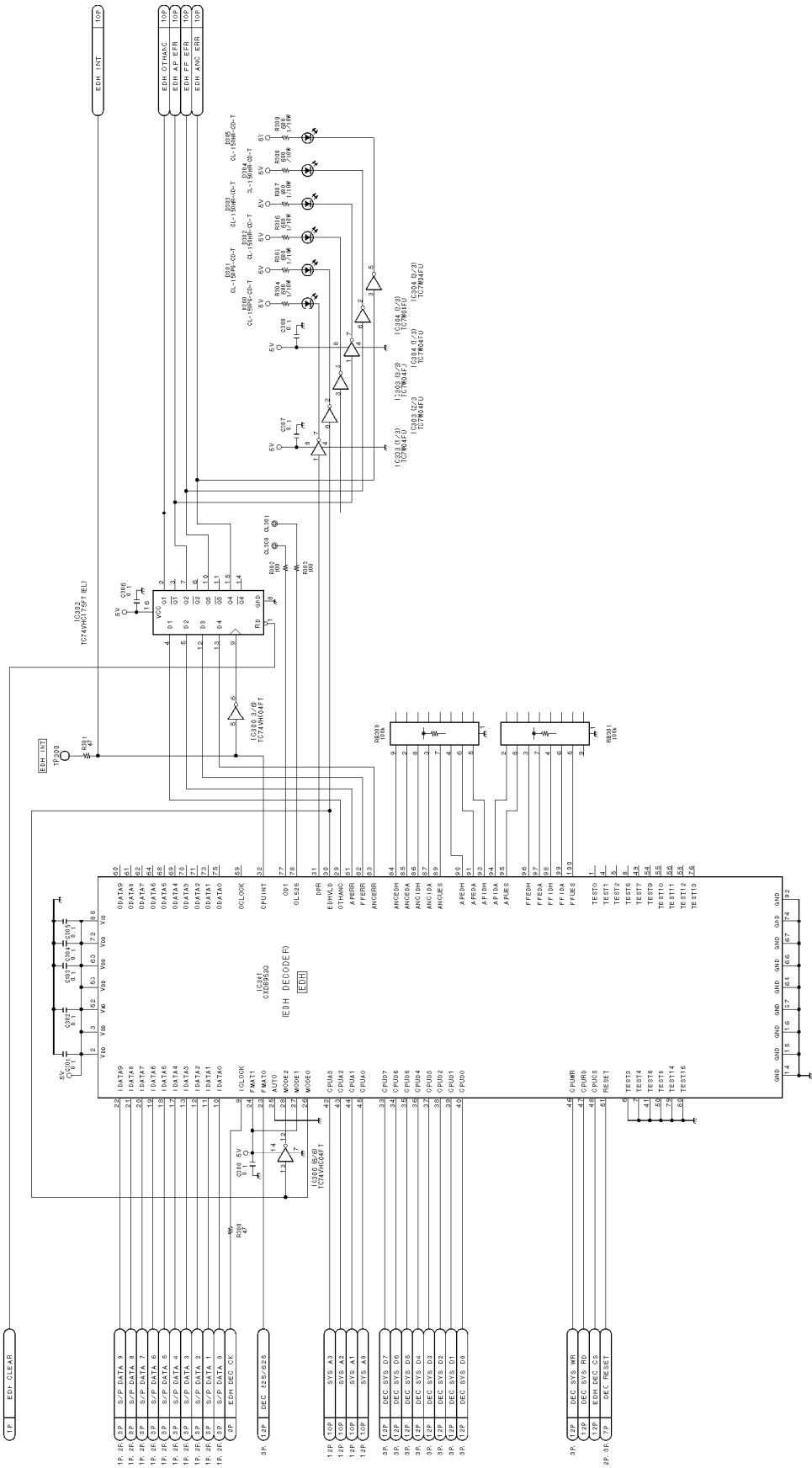
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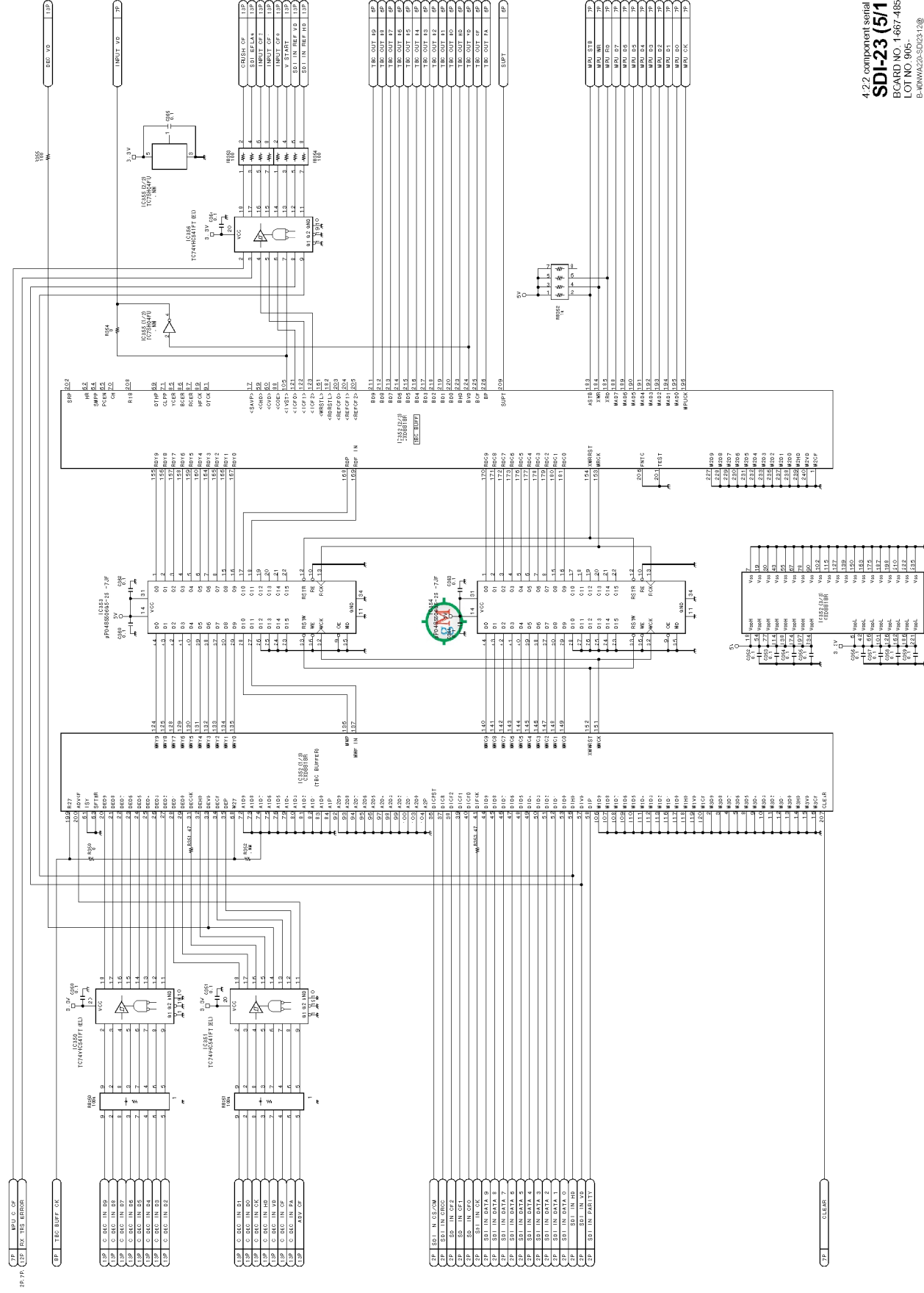
DNV-A28
DNV-A29P
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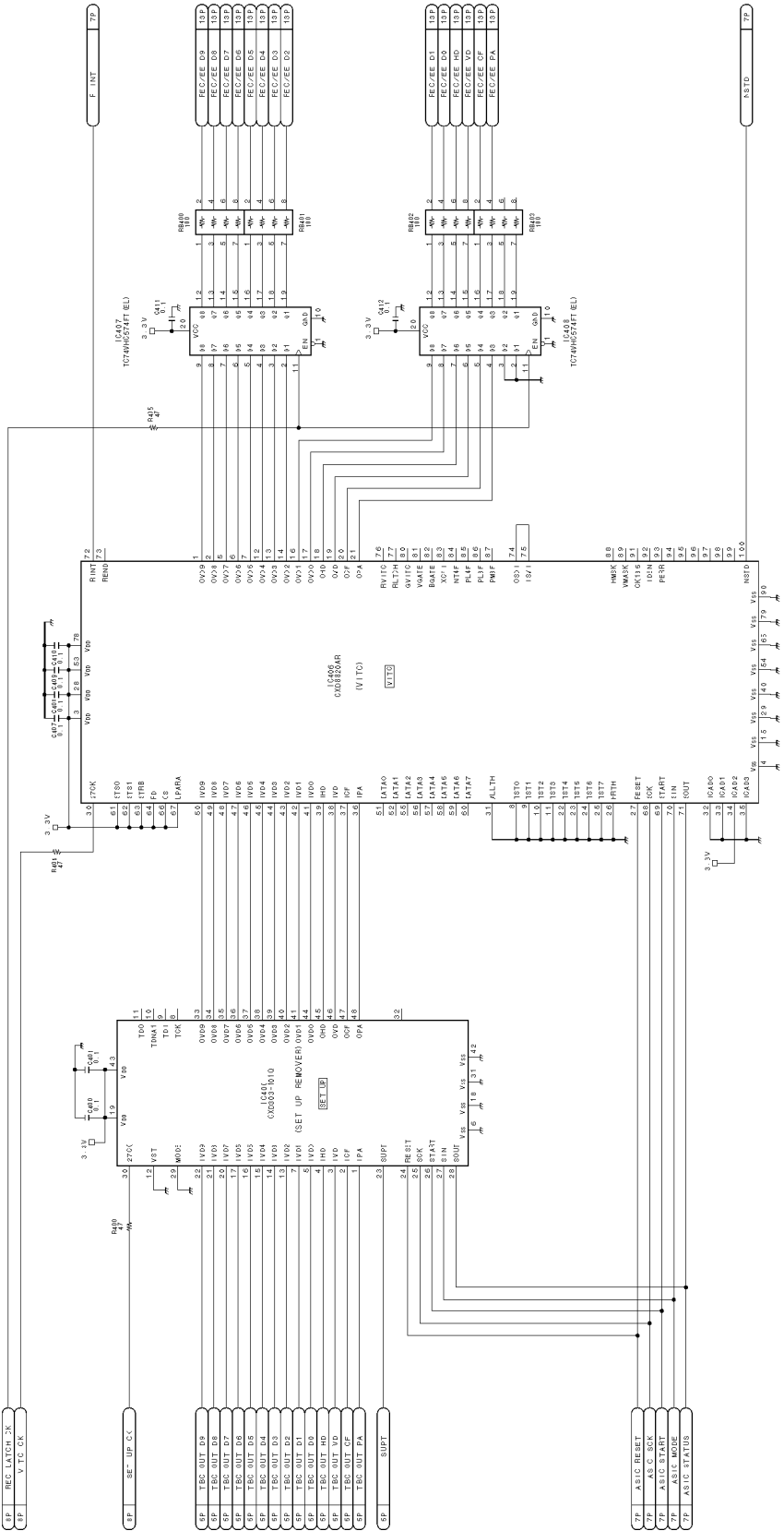


4x2.2 component serial digital interface
SDI-23 (4/13)
BOARD NO. 1-667-485-12
LOT NO. 905-
EADNWA20-SDI23-12@



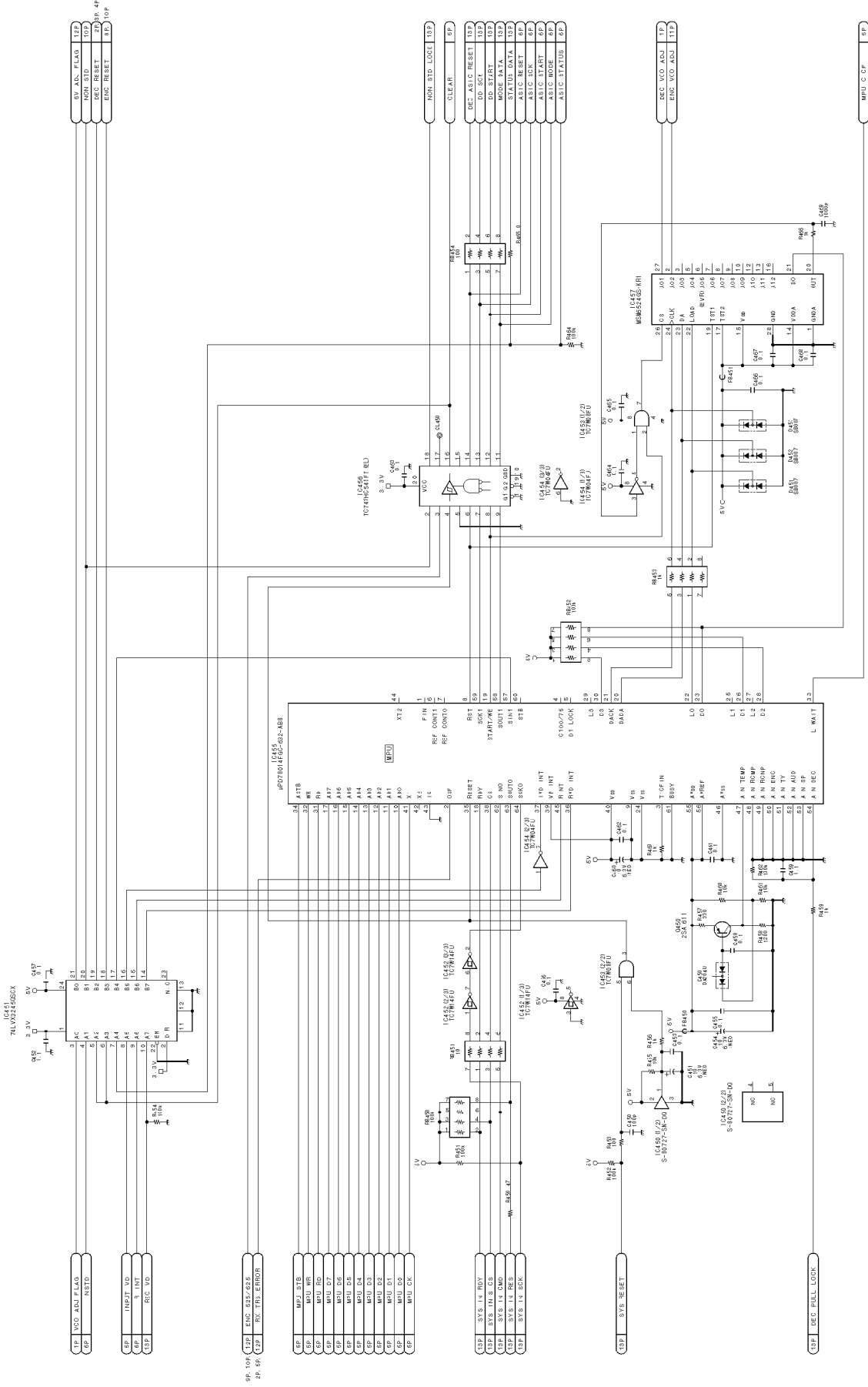
4:2:2 component serial digital interface
SDI-23 (5/13)
 BCARD NO. 1-667-485-12
 LOT NO. 905-
 B-W0NWA20-SDI23-12@

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4/2-2 component serial digital interface
SDI-23 (6/13)
BOARD NO. 1-667-485-12
LOT NO. 905-
EADONWA20-SDI23-12@

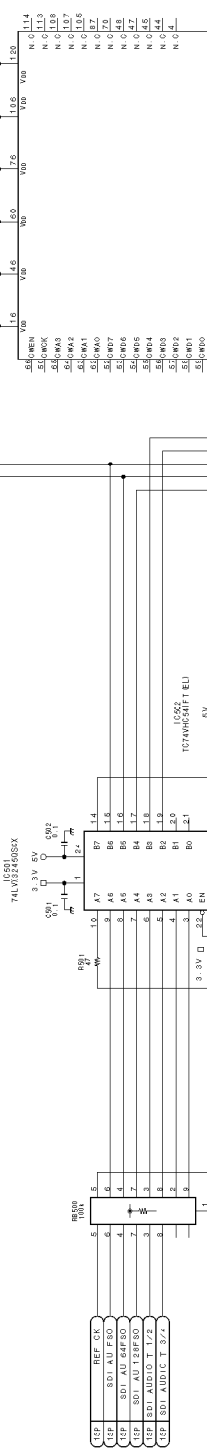


4.2.2 component serial digital interface
SDI-23 (7/13)
BOARD NO. 1-667-485-12
LOT NO. 905-
B-M0WAZ23-SDI23-120

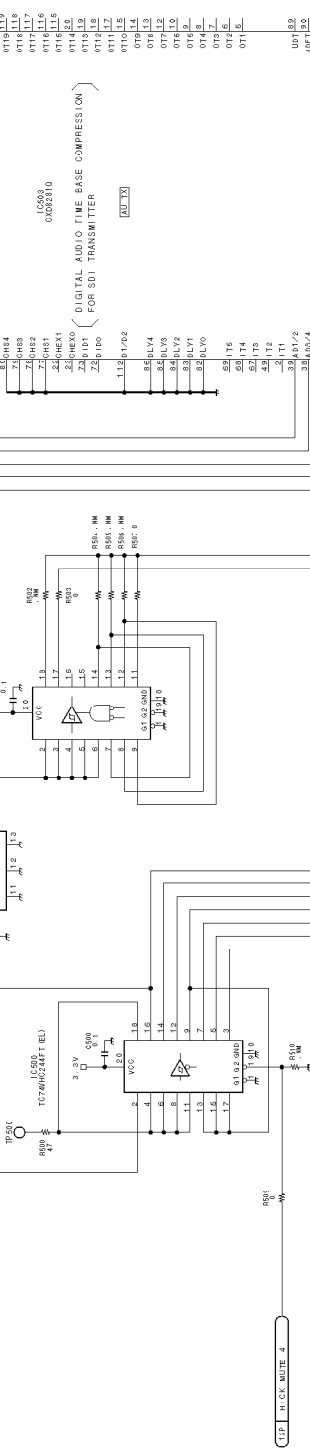
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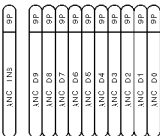
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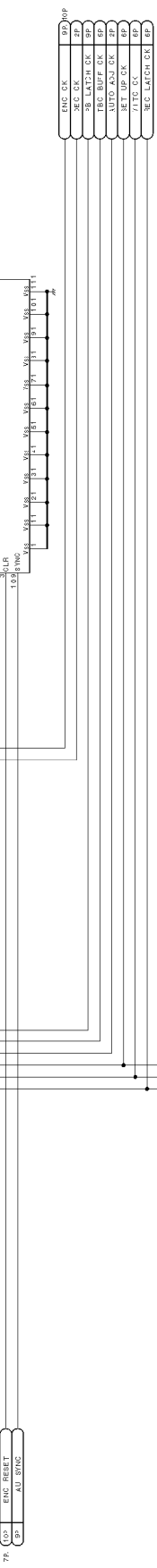
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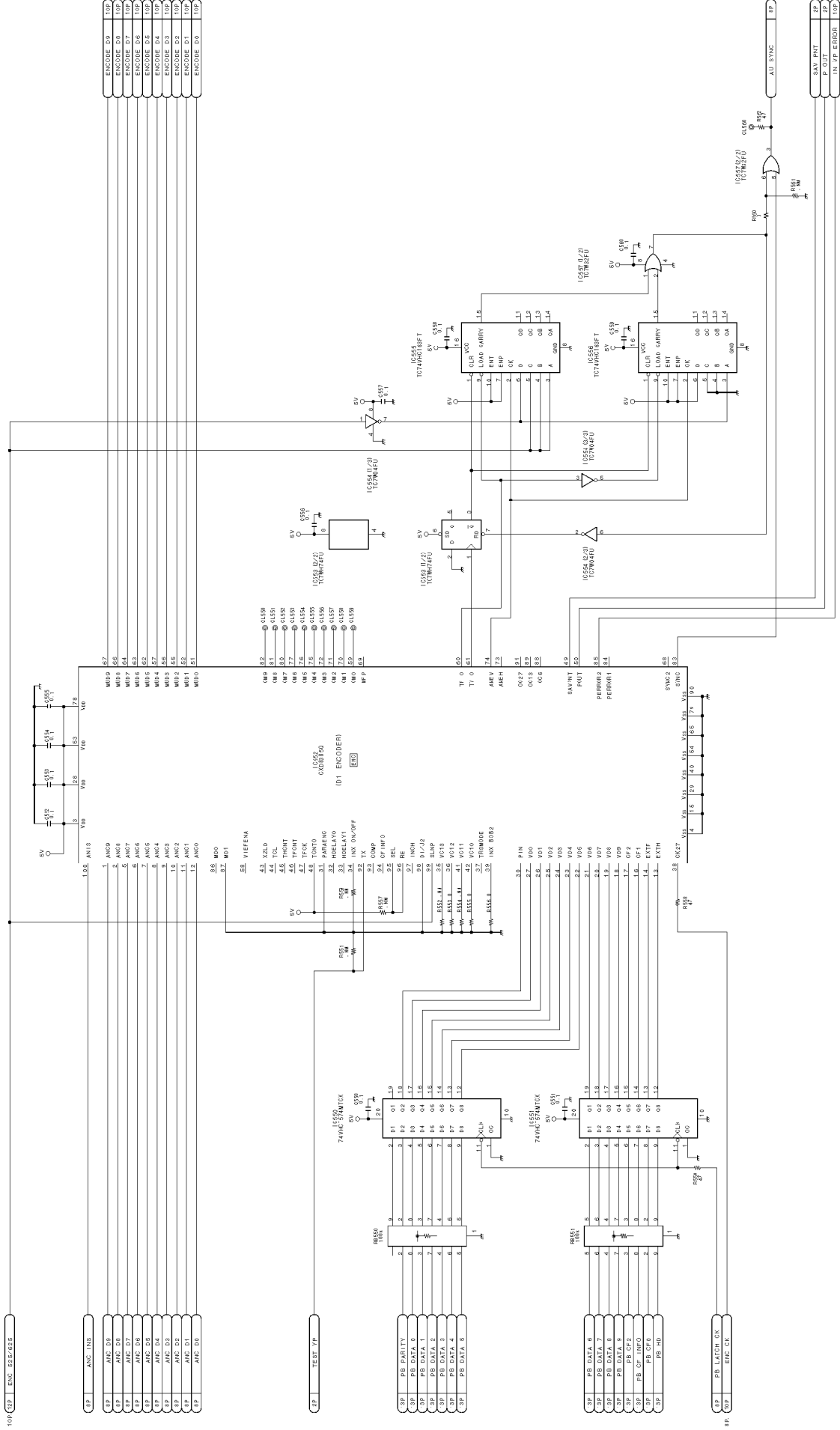
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4/2-2 component serial digital interface
SDI-23 (8/13)
BOARD NO. 1-667-485-12
LOT NO. 905-
EJ40NWA20-SDI23-12@



4.2.2 component serial digital interface
SDI-23 (9/13)
BOARD NO. 1-667-485-12
LOT NO. 905-
B-MONWAZ20-SC03120

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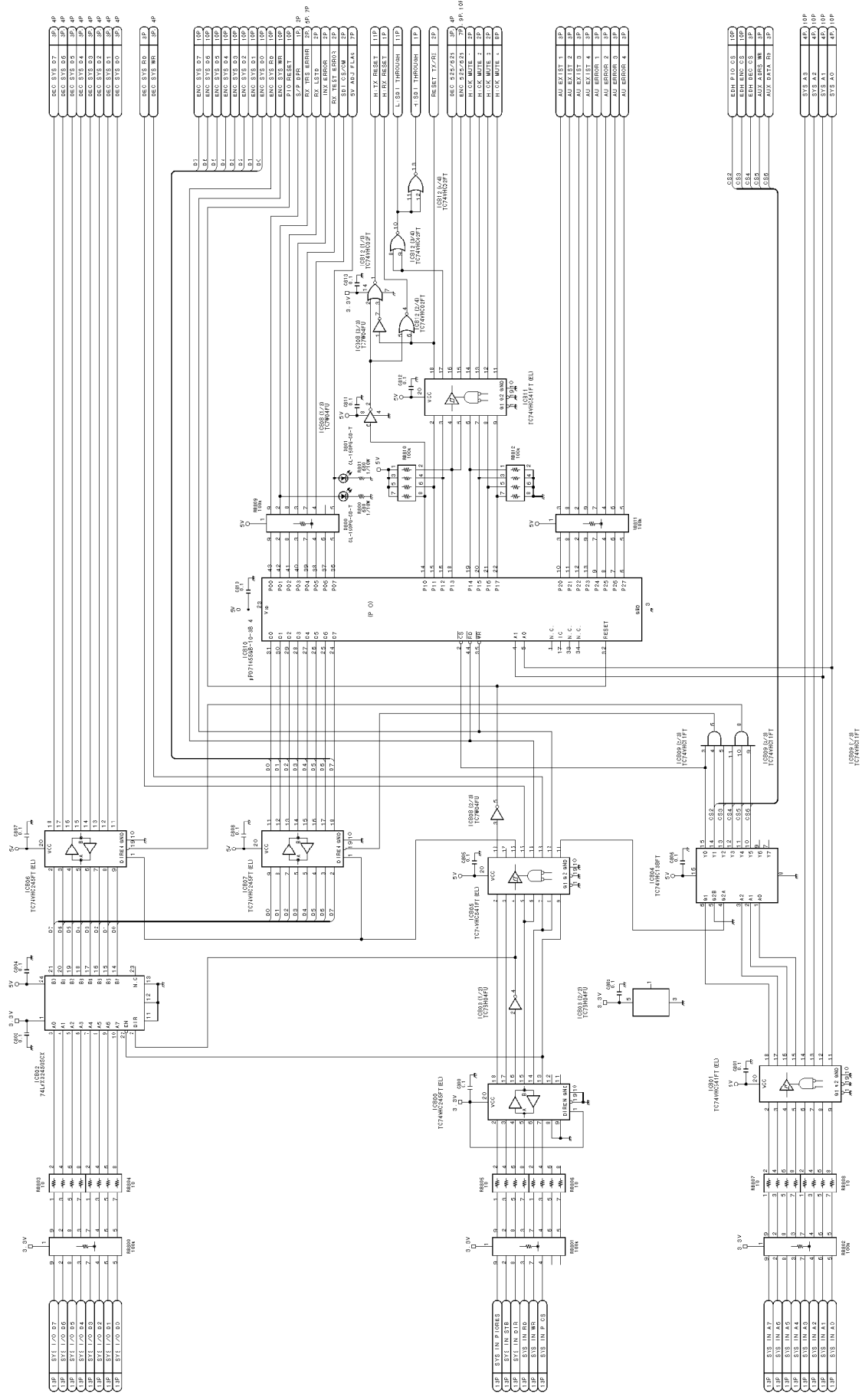
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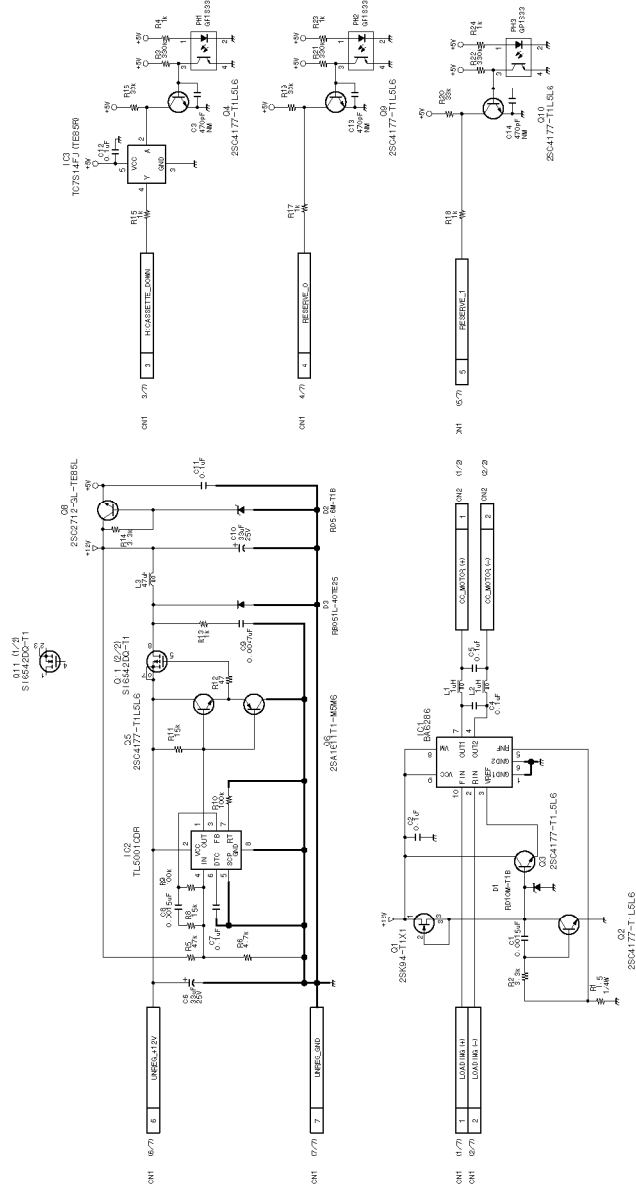
DNV-A28
DNV-A29P
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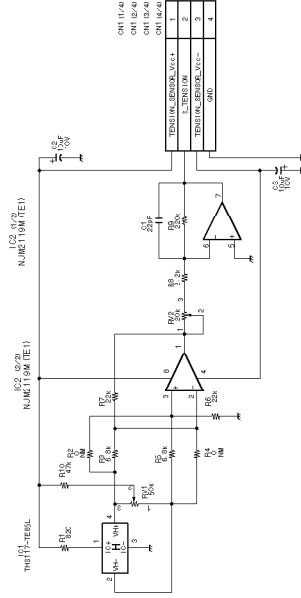


4/2-2 component serial digital interface
SDI-23 (12/13)
BOARD NO. 1-687-485-12
LOT NO. 905-
EADNWA20-SDI23-12@

SE-529, SR-65 SE-529, SR-65

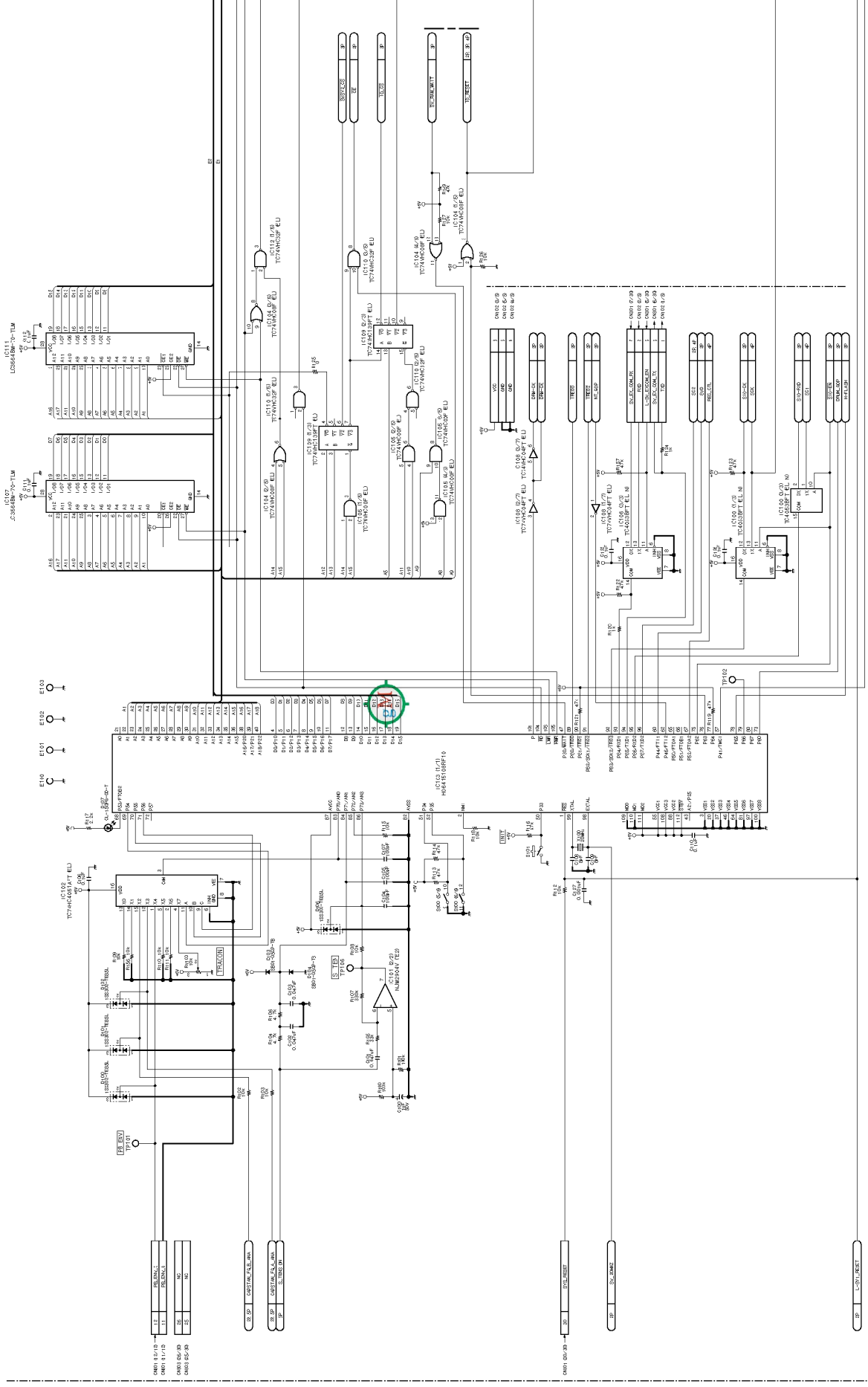


Cassette compartment
SE-529
BOARD NO. 1-675-101-12, 13
LOT NO. 905-
DNW-A28, SE-529, 01+



Stension sensor
SR-65
BOARD NO. 1-667-486-12
LOT NO. 905-
DNW-A220 SR-65_012

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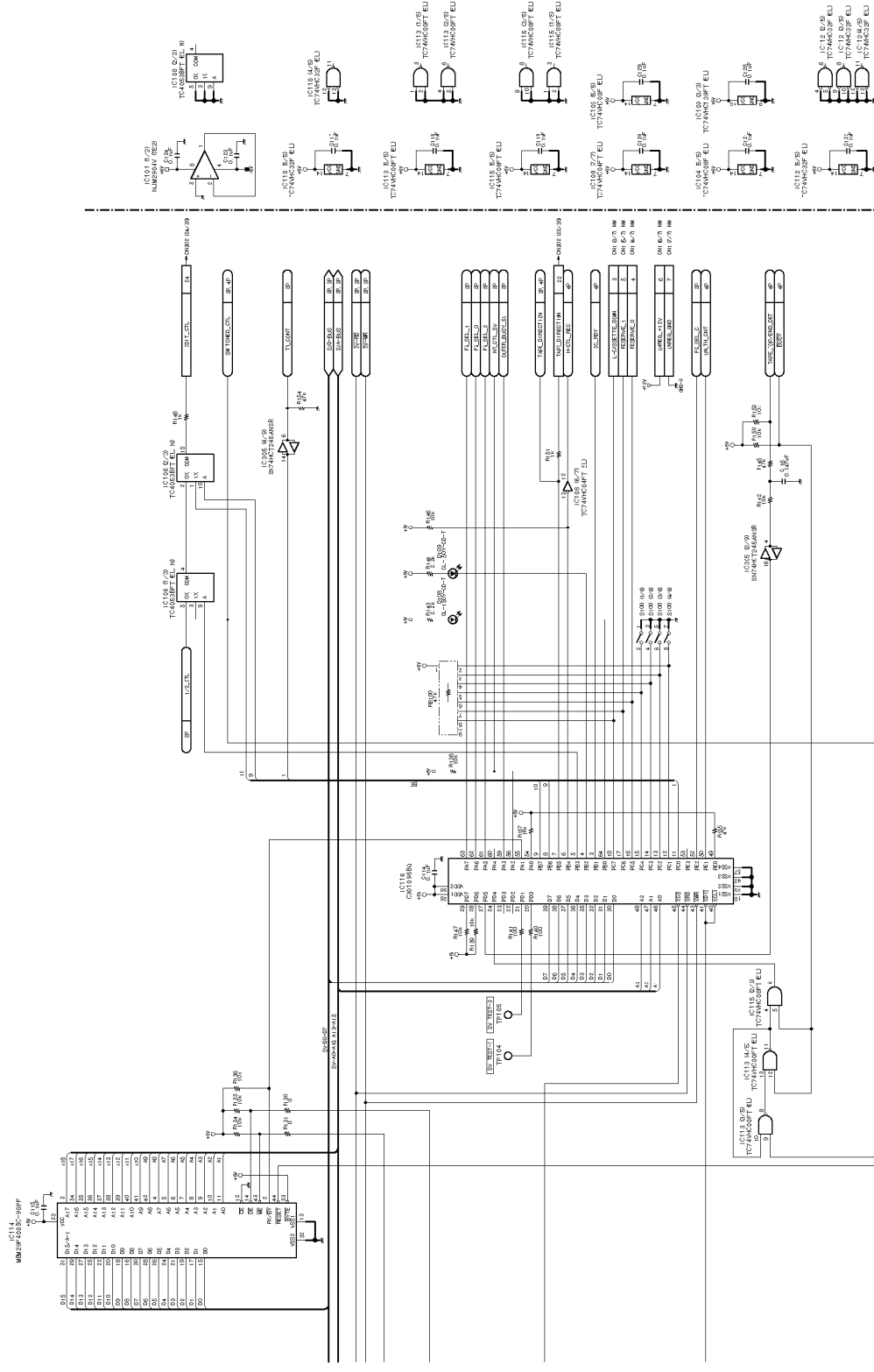
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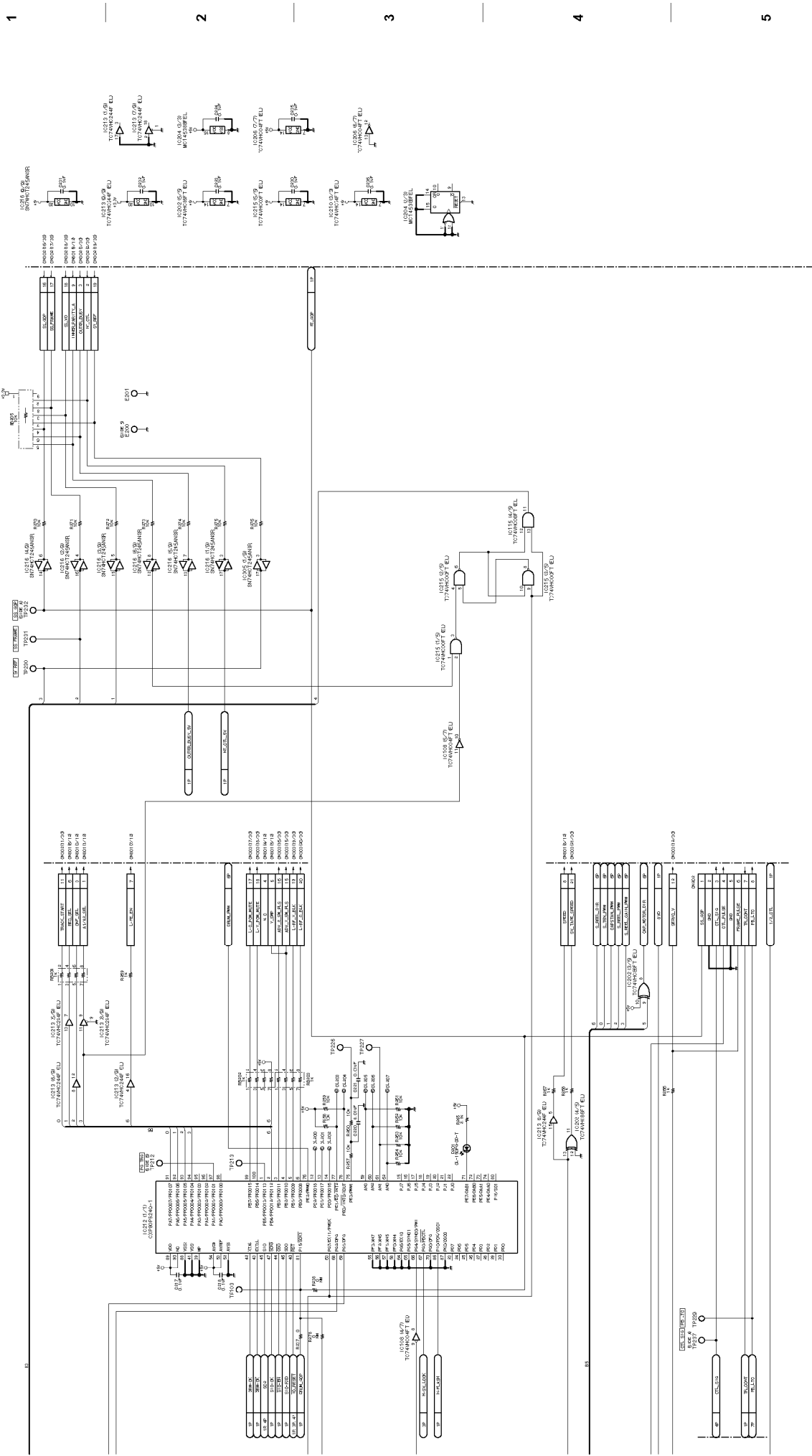
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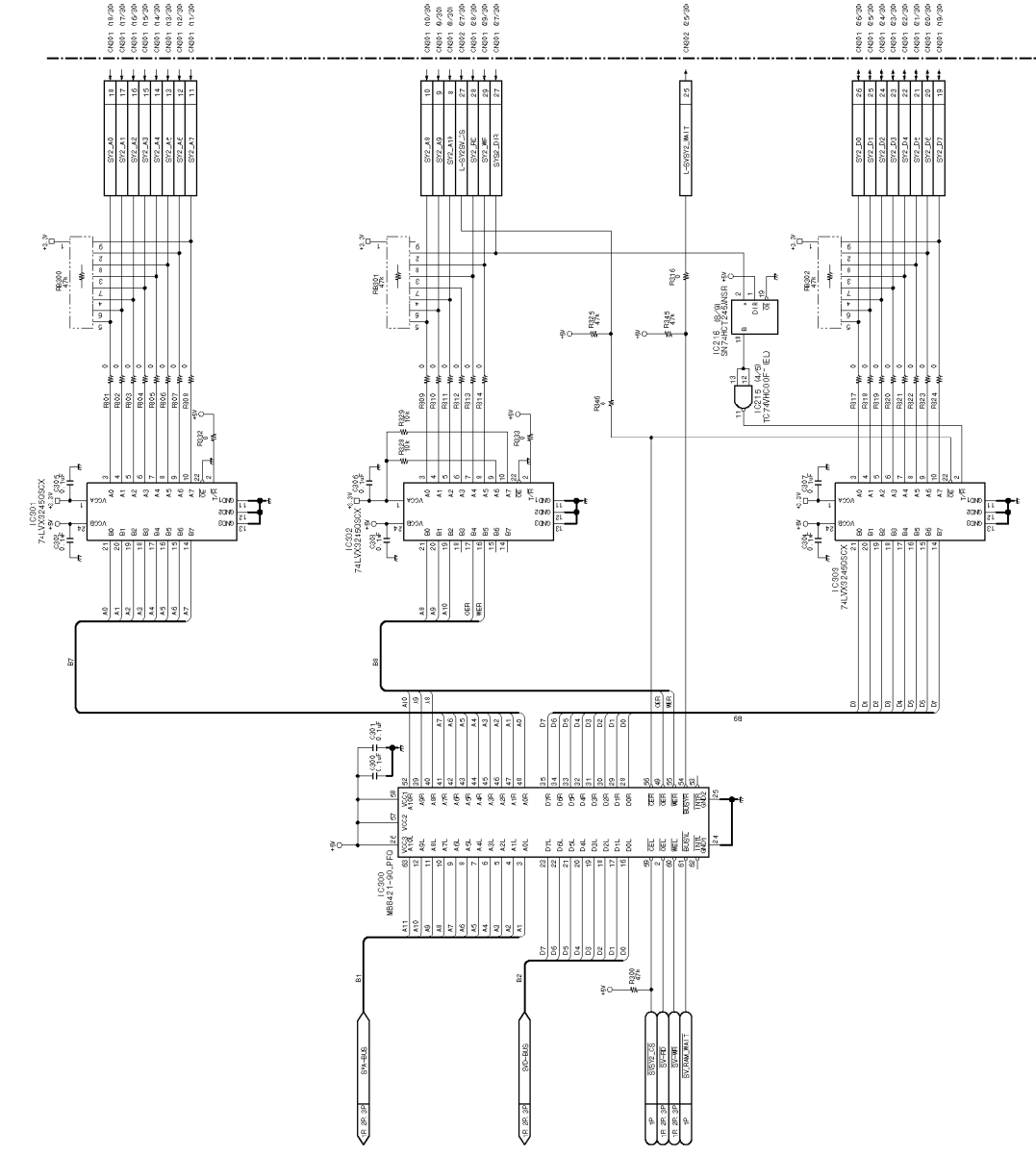
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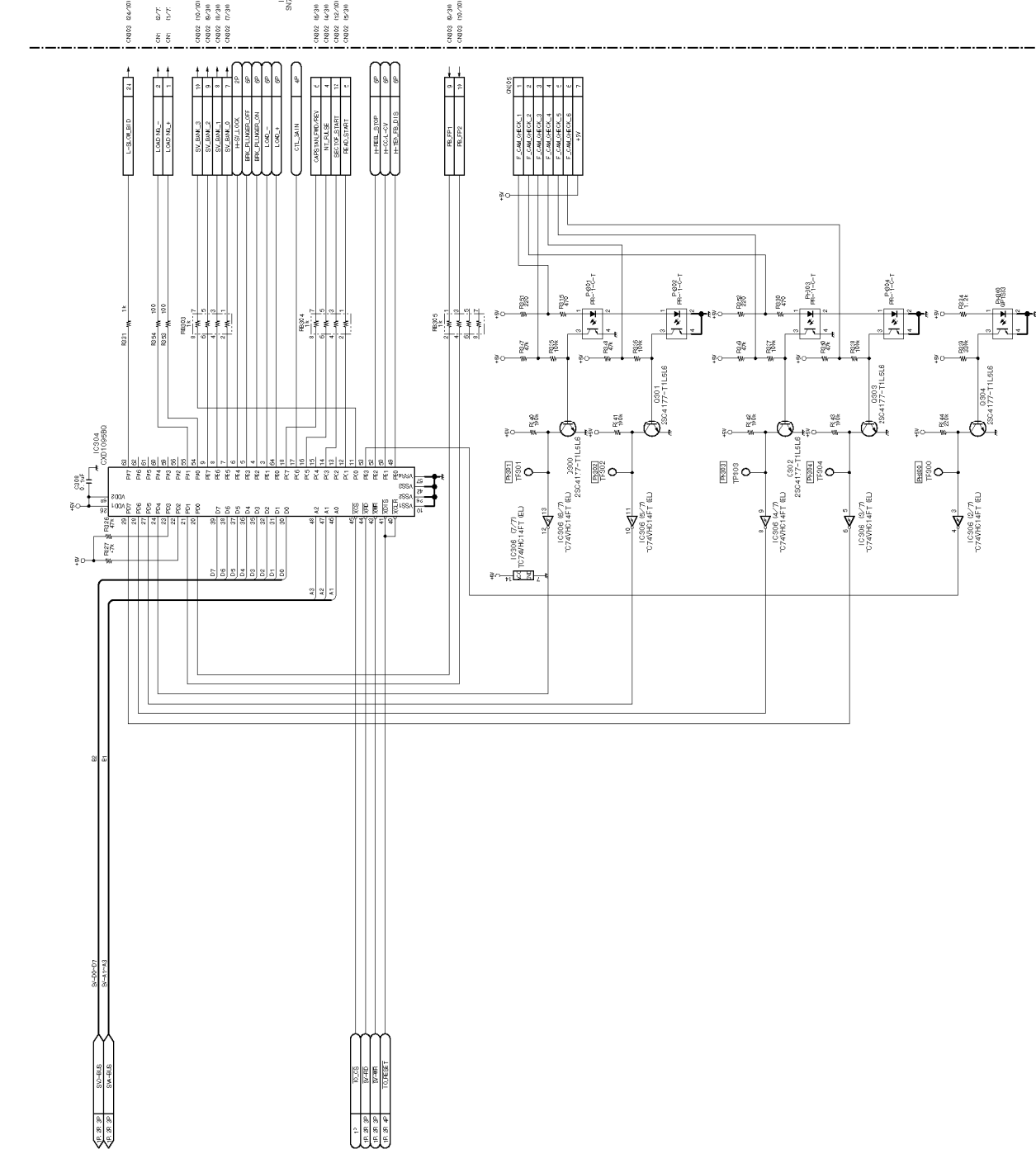
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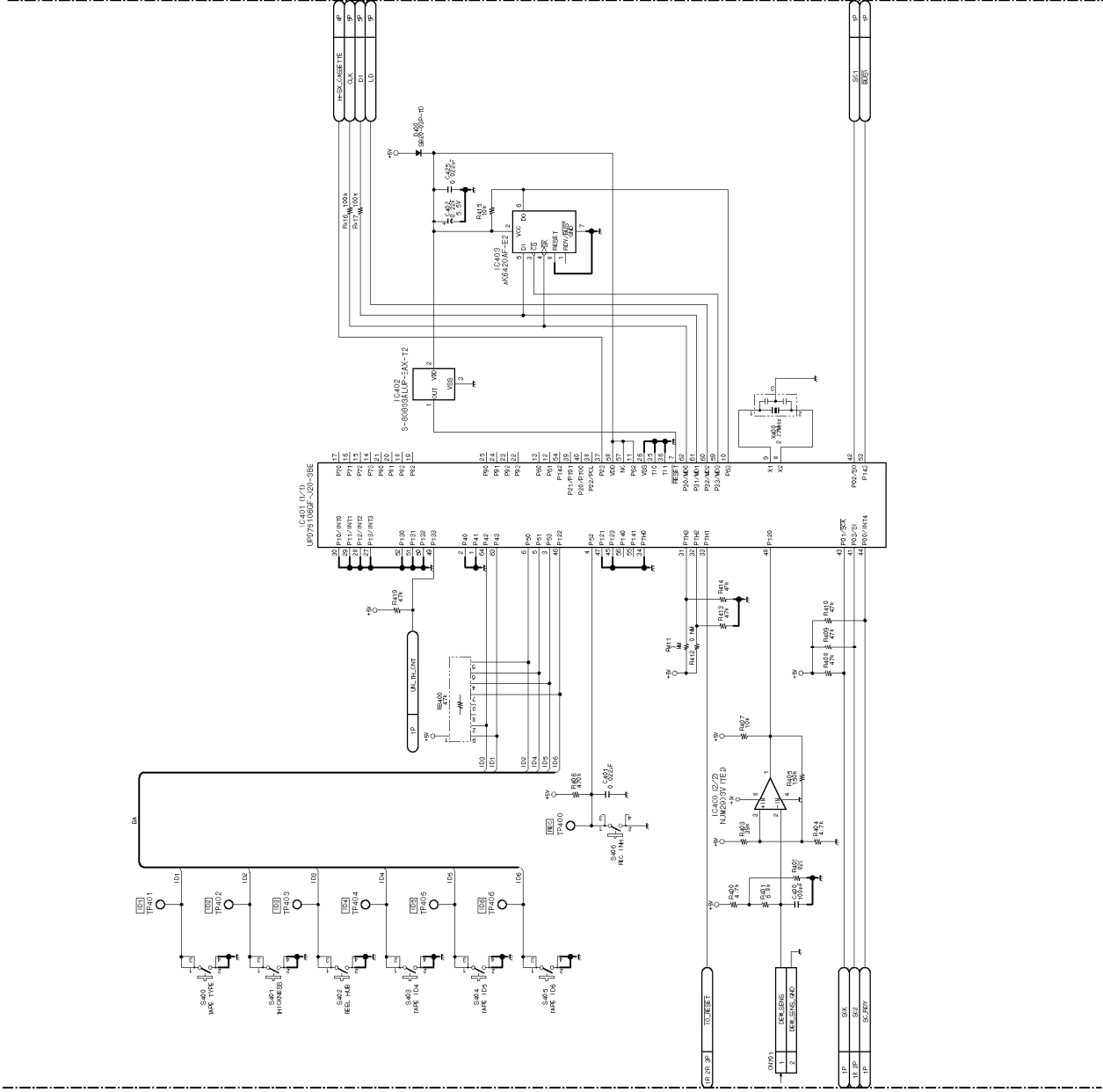
SV-194A (1/7)



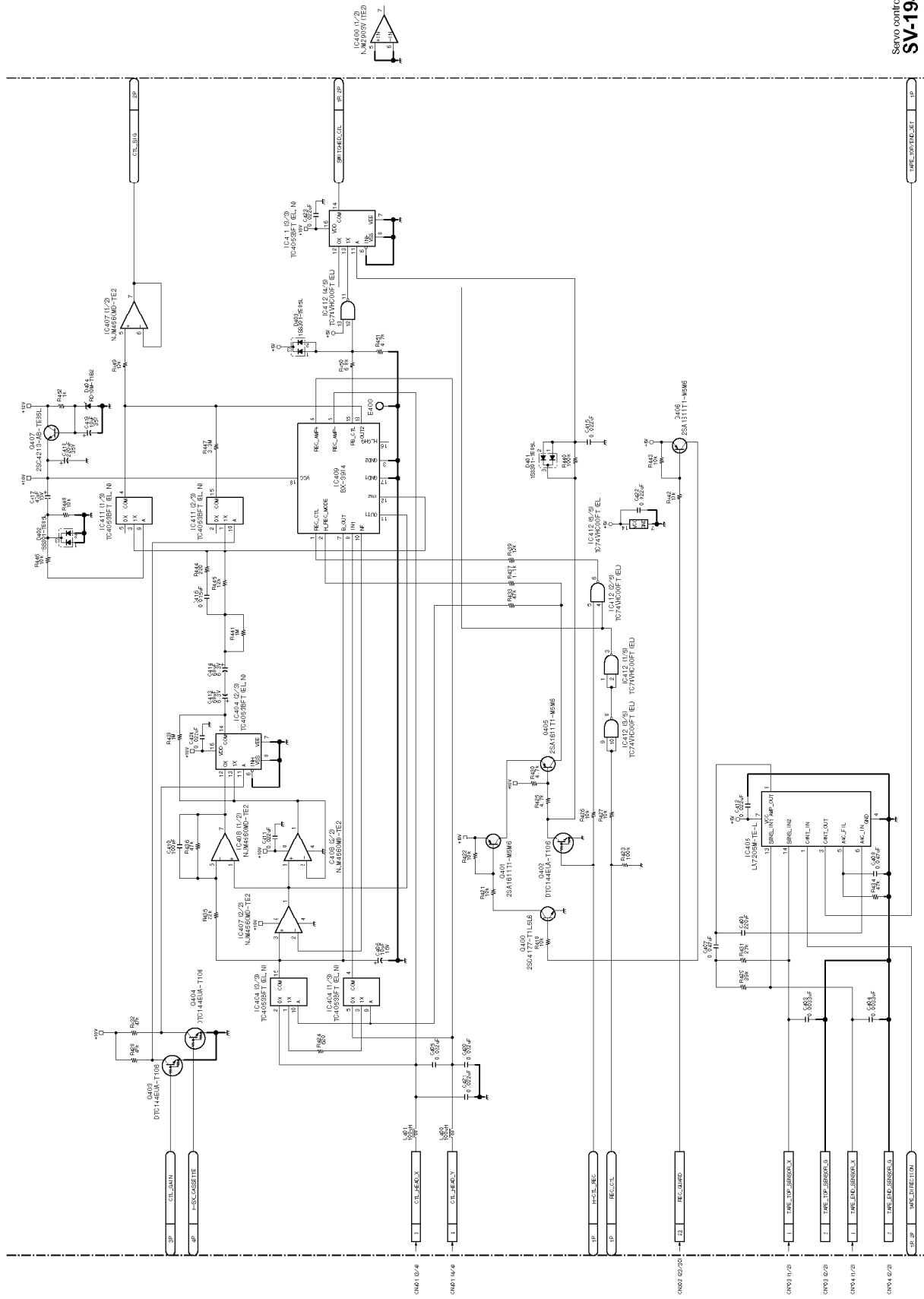






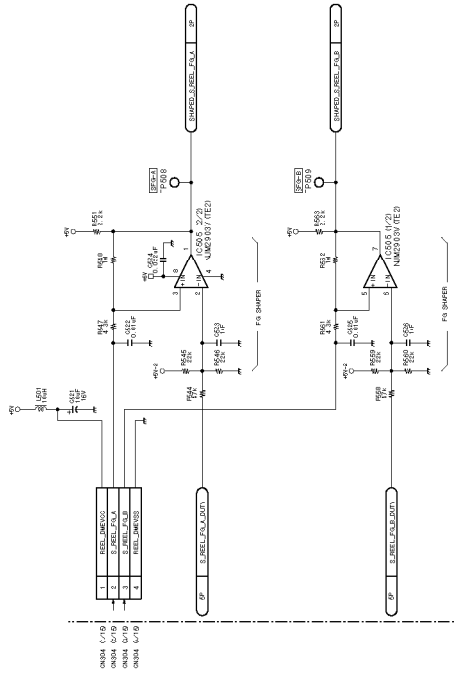


SV-194A (4/7) SV-194A (4/7)

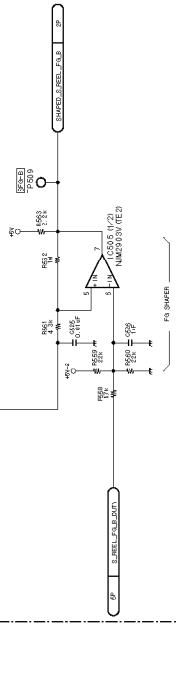


Servo control, Motor driver Sensors
SV-194A (4/7)
BOARD NO. 1-667-487-17
LOT NO. 905-
ENW-A220, SV-1H, 003

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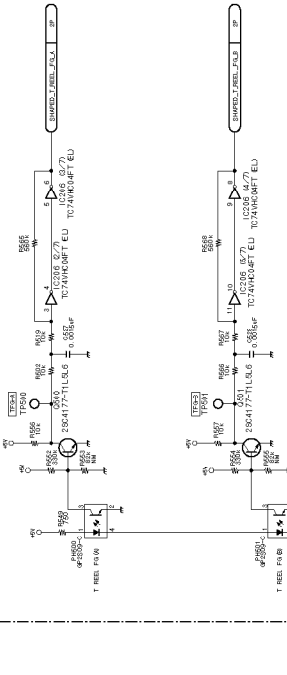
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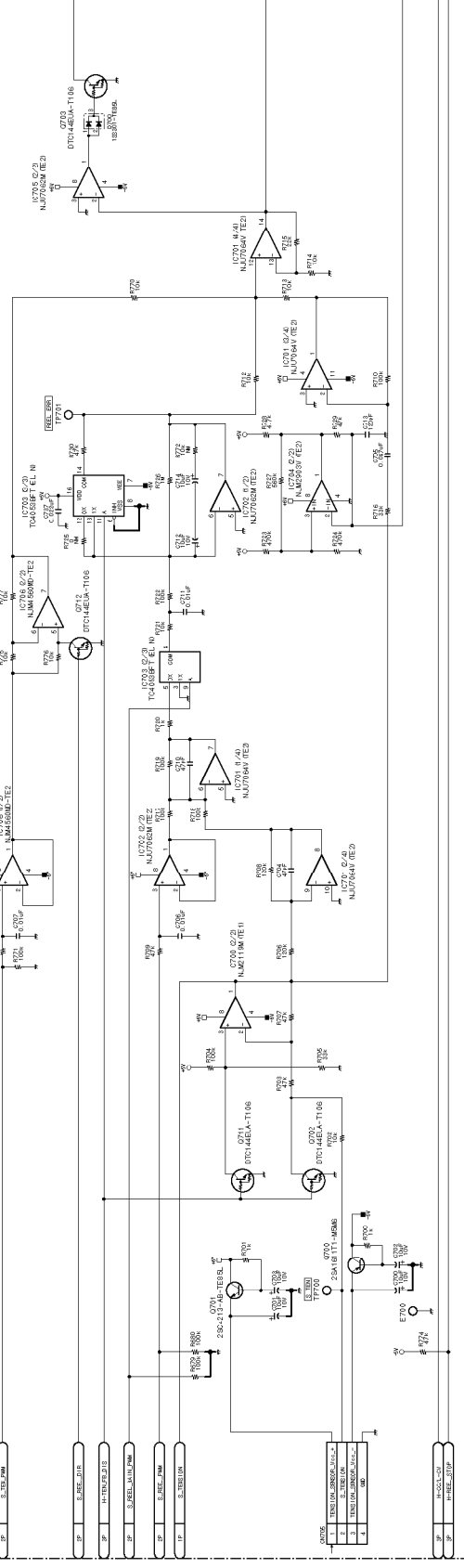
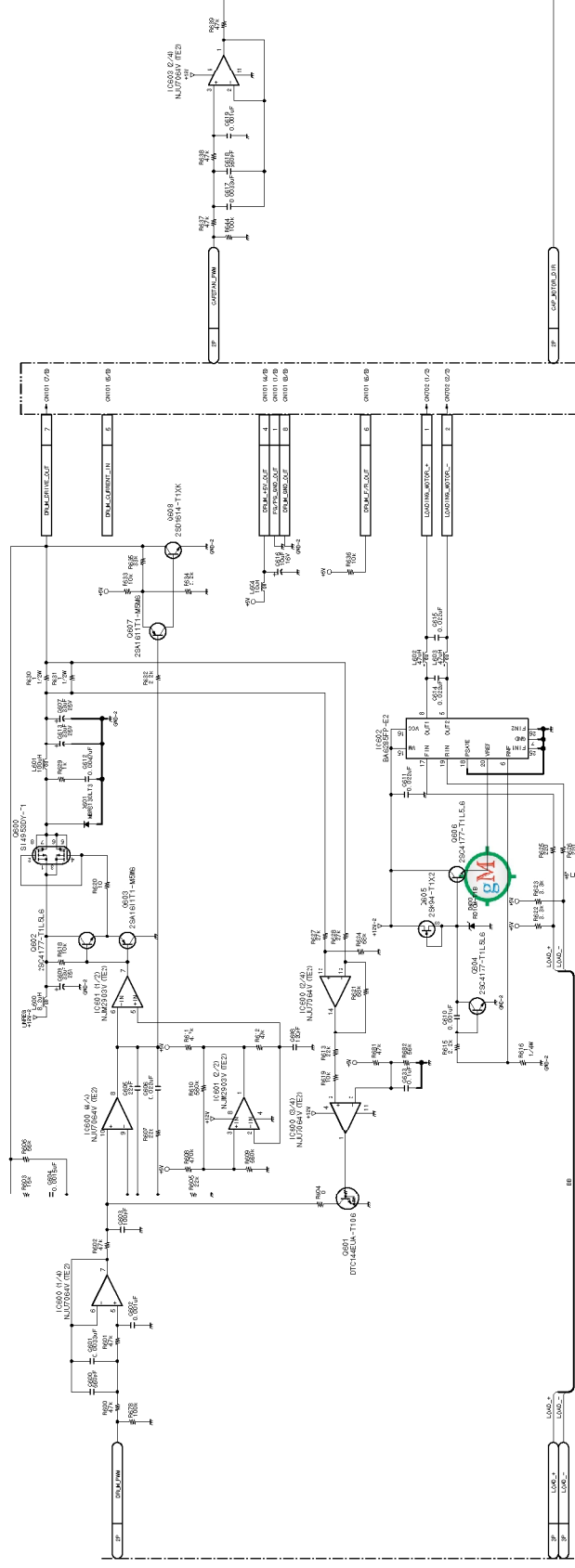


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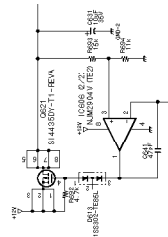


Servo control Motor driver Sensors
SV-194A (5/7)
 BOARD NO. 1-687-487-17
 LOT NO. 905-
 CDM-A22L_SV-194_003

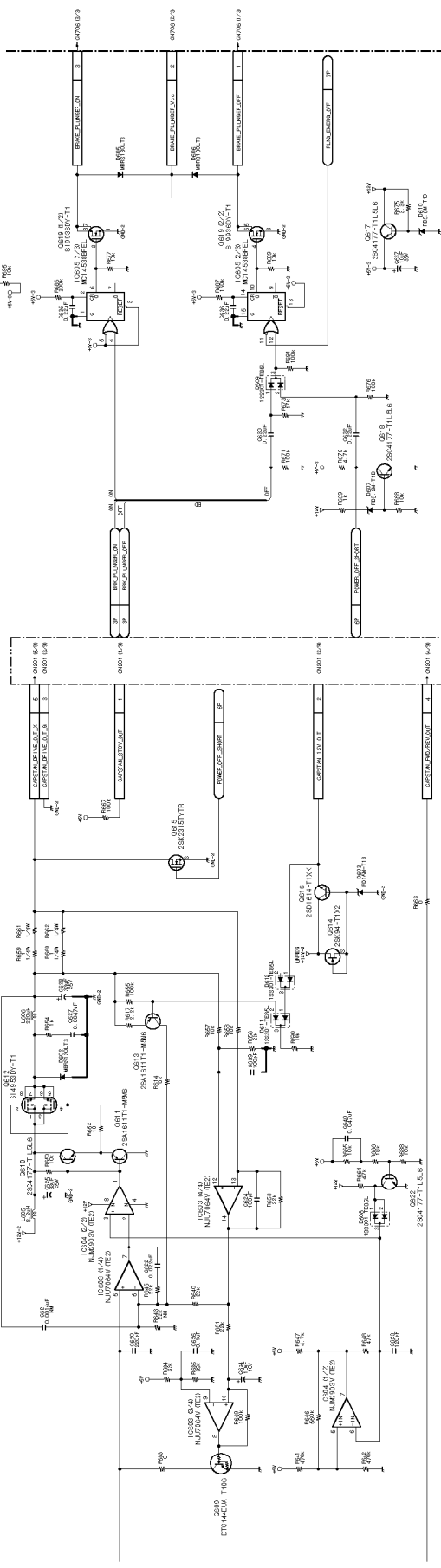
SV-194A (6/7) SV-194A (6/7)



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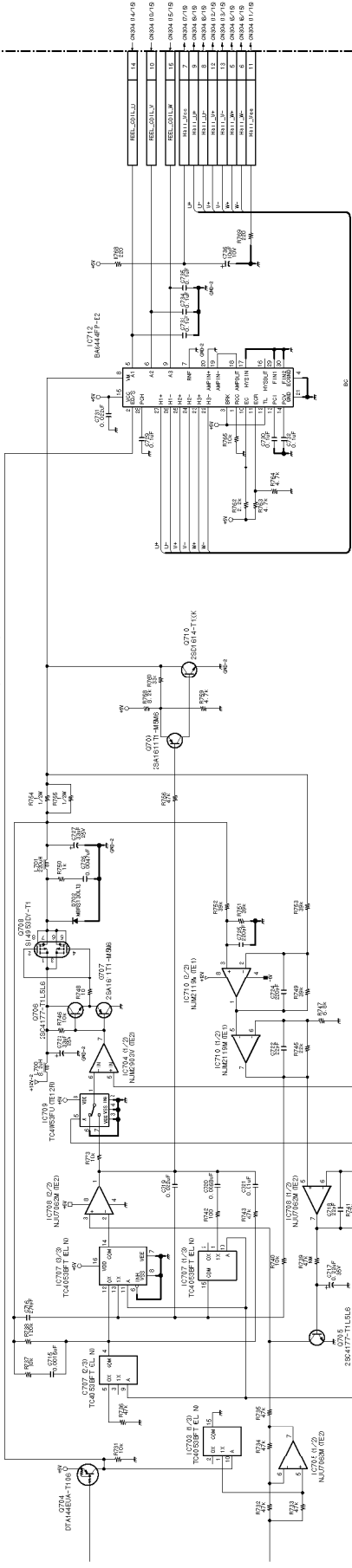
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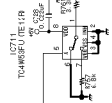
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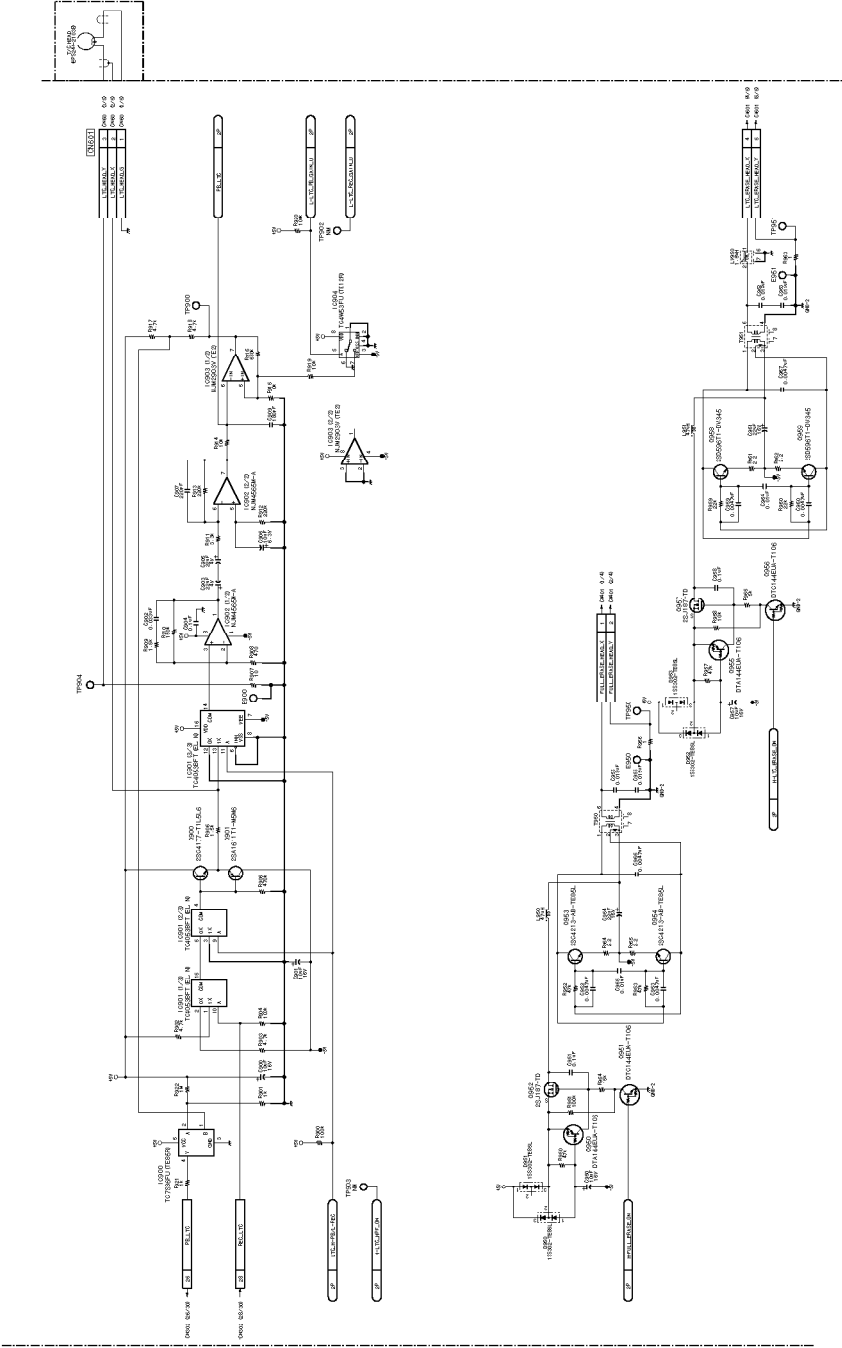


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Servo control, Motor driver, Sensors
SV-194A (6/7)
 BOARD NO. 1-667-437-17
 LOT NO. 905
 DNM-A220-SV-194_003

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Servo control, Motor driver Sensors
SV-194A (7/7)
BOARD NO. 1467-487-17
LOT NO. 905-
DNIWA220_3X-194_003

DNIW-A08
DNIW-A29P
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4-106 E

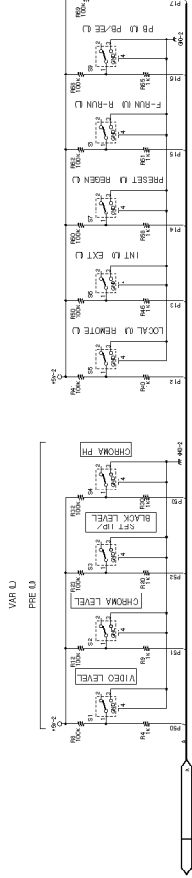
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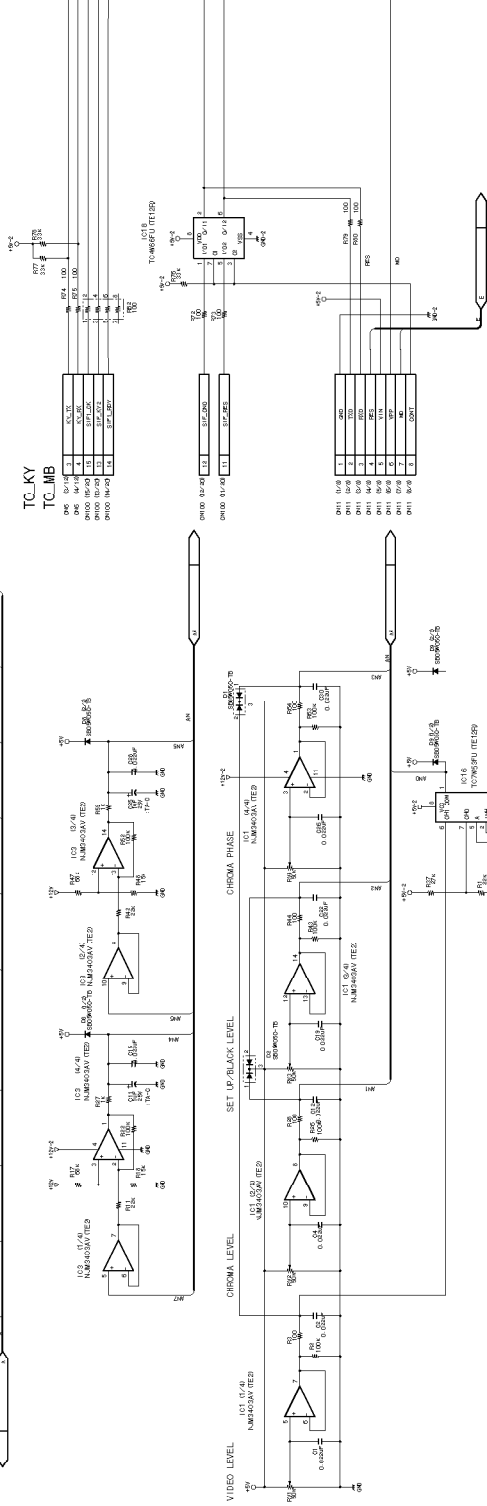
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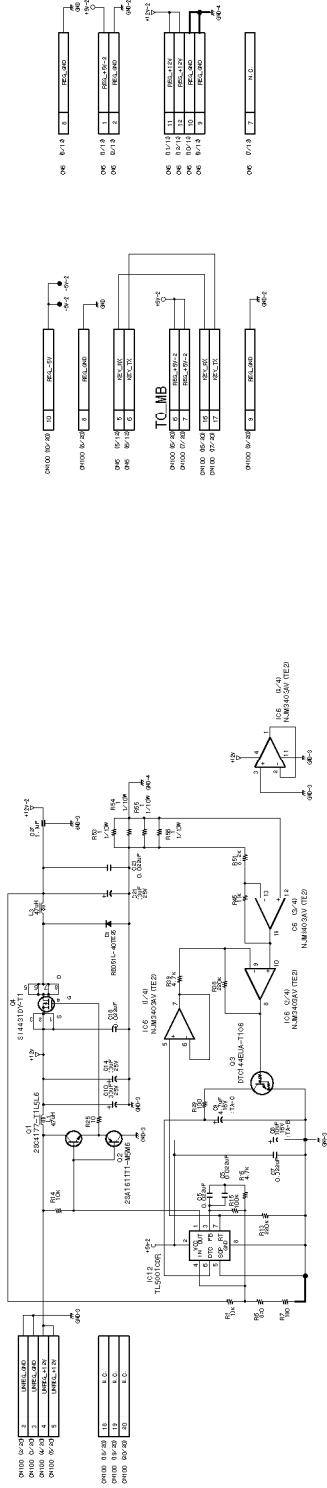


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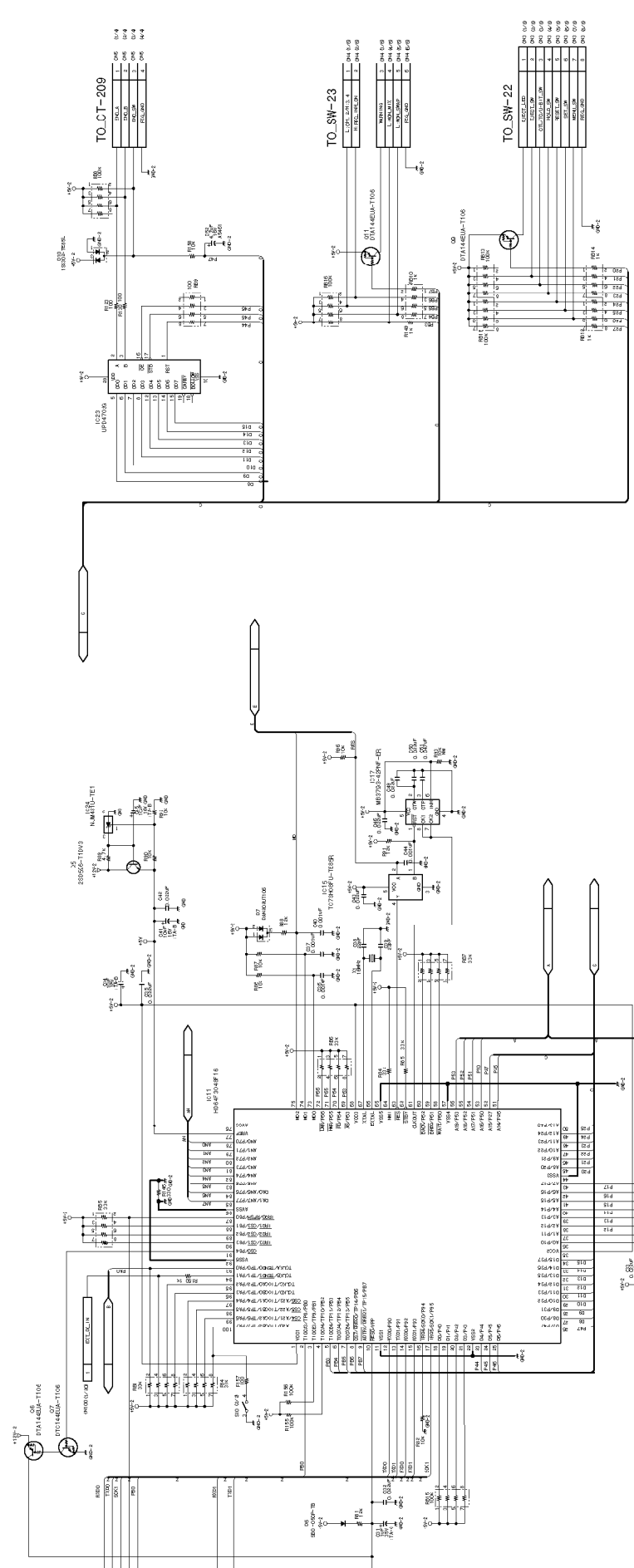


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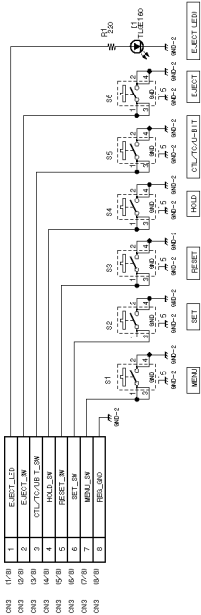


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3	TEST MODE
4	TEST MODE
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100	TEST MODE

Lower control panel
SW-21
BOARD NO. 1-674-596-11
LOT NO. 905-
DMM-438, SW-21, 011

4-109 (a) 4-109 (a)

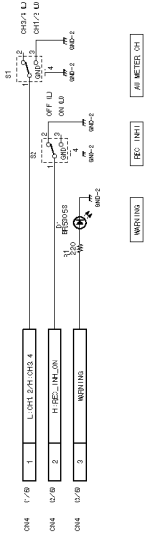
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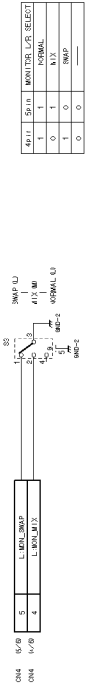
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Control panel (EJECT, CLUTCH, BIT, HOLD, RESET, SET, MENU)
SW-22
BOARD NO. 1-875-102-11
LOT NO. 905-
DNP-A28_SW-22_011

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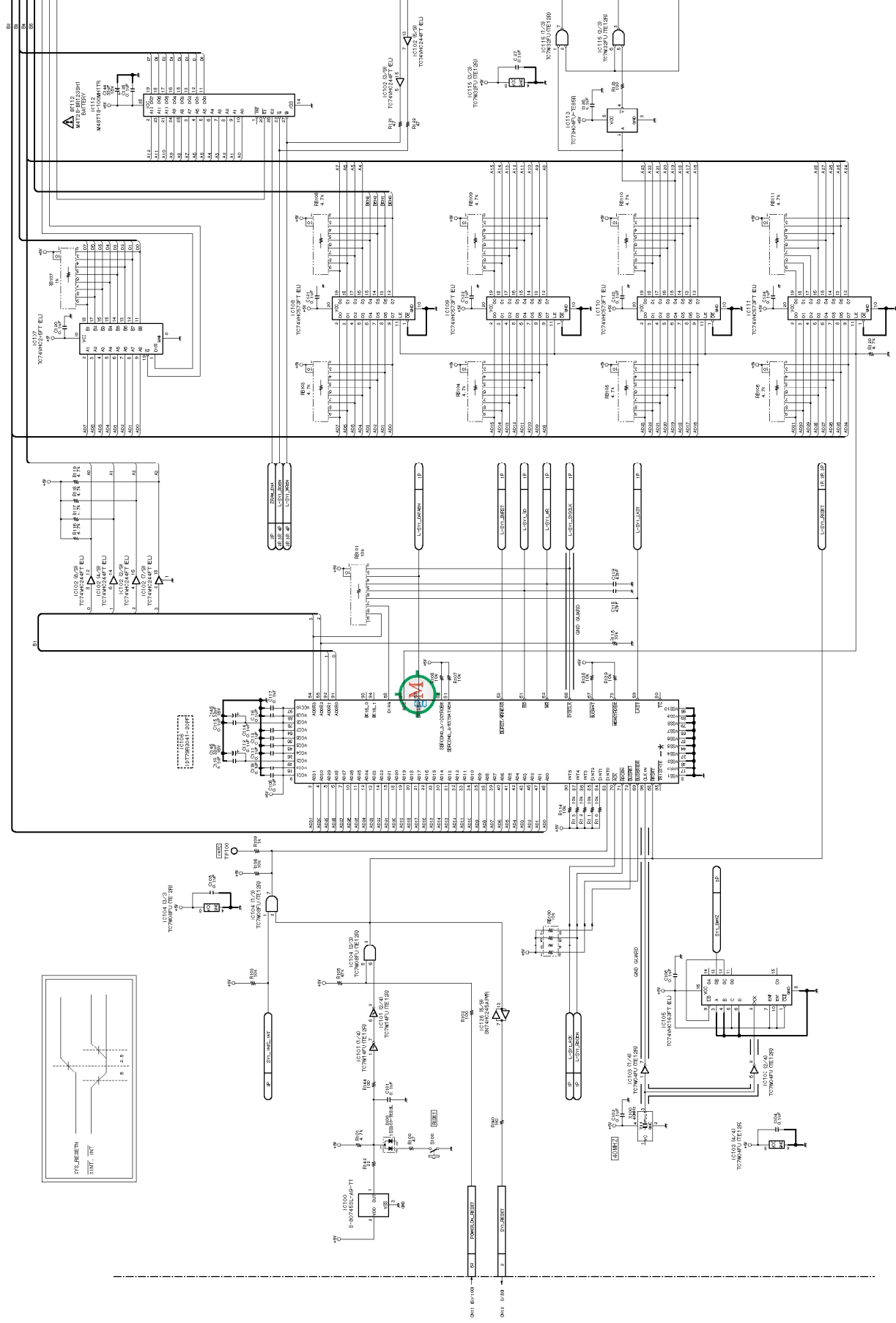


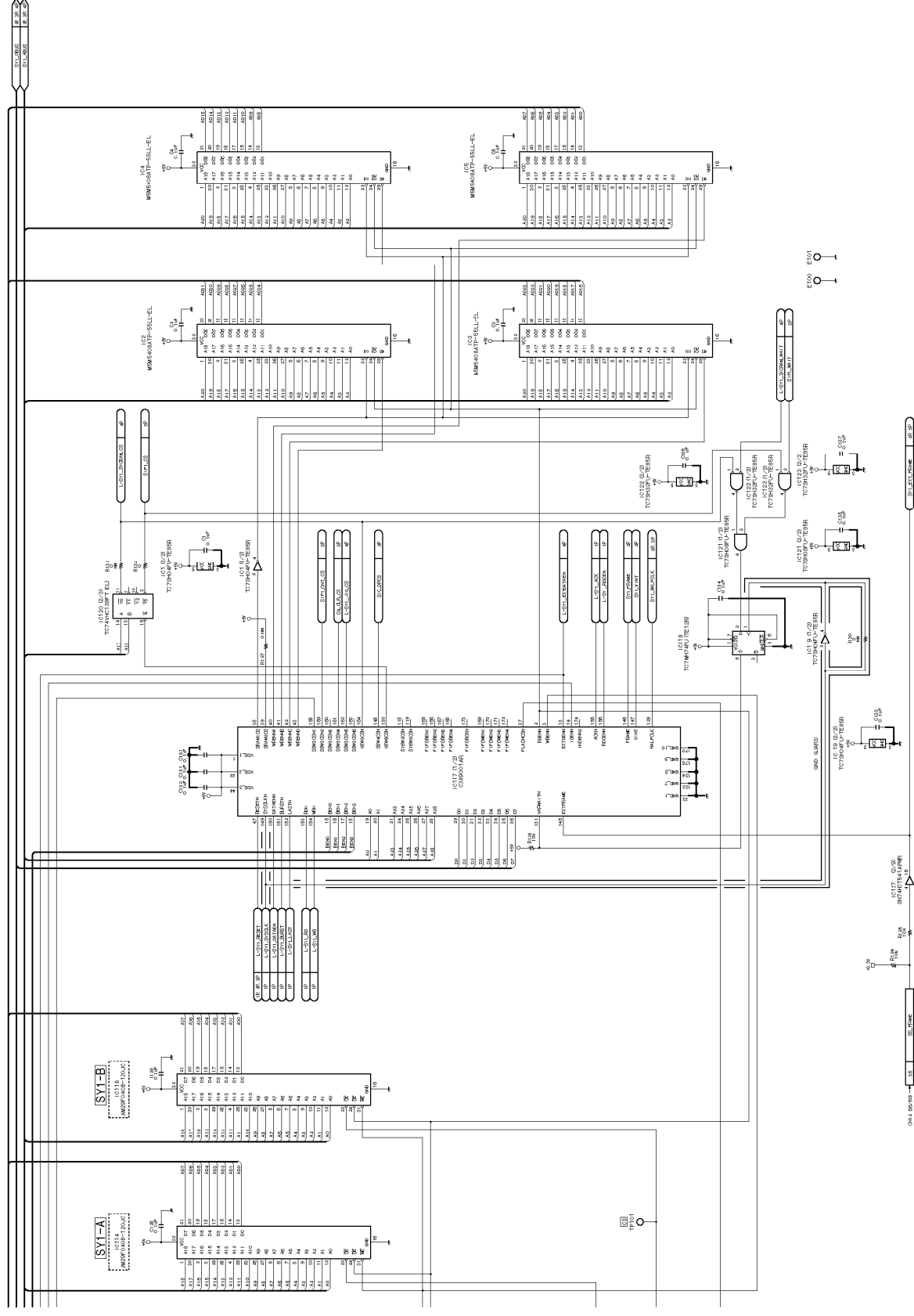
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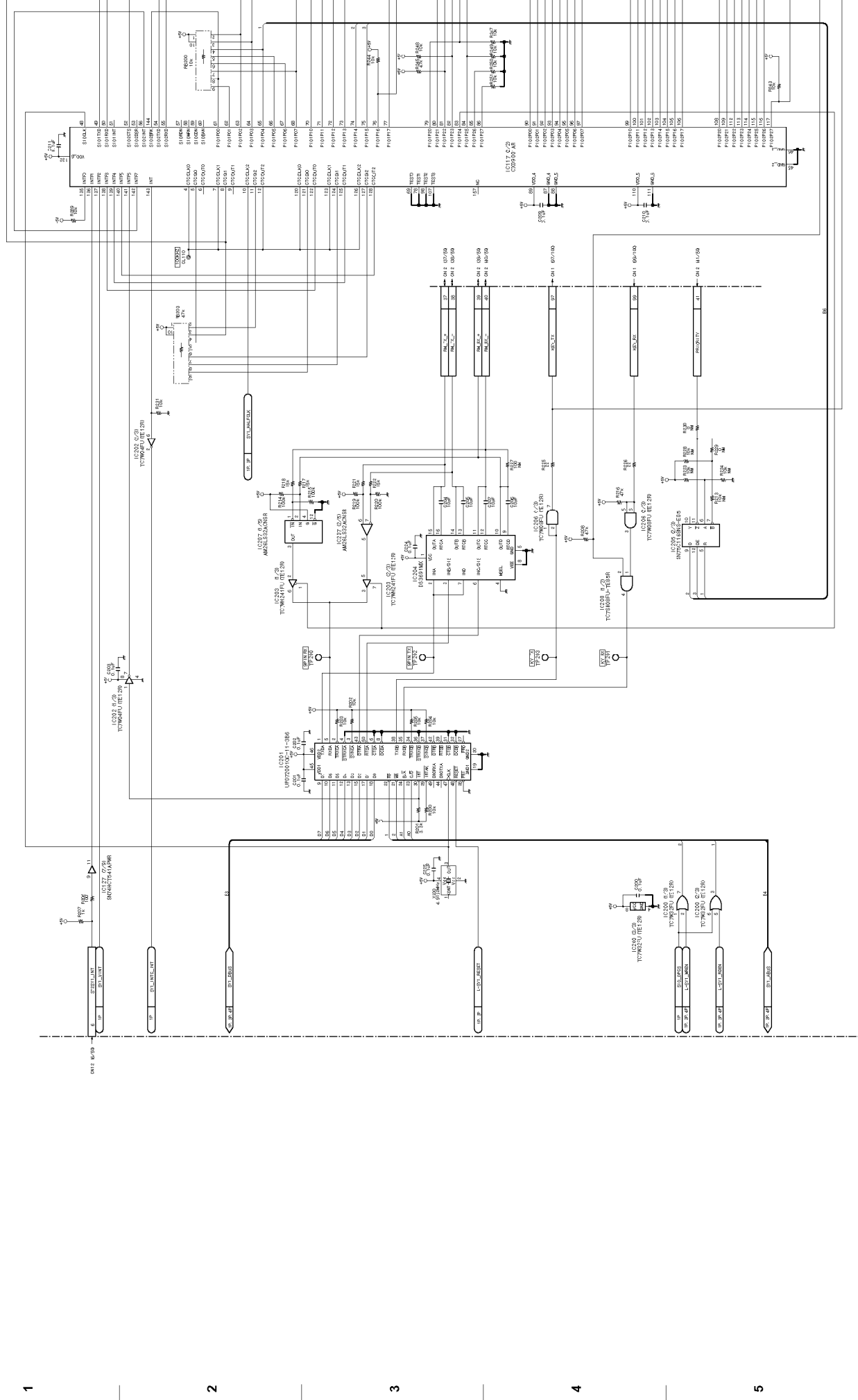
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Control panel (WARNING Indl., REC INHI, METER, MONITOR)
SW-23
BOARD NO. 1-875-103-12
LOT NO. 905-
DNP-A28_SW-23_011

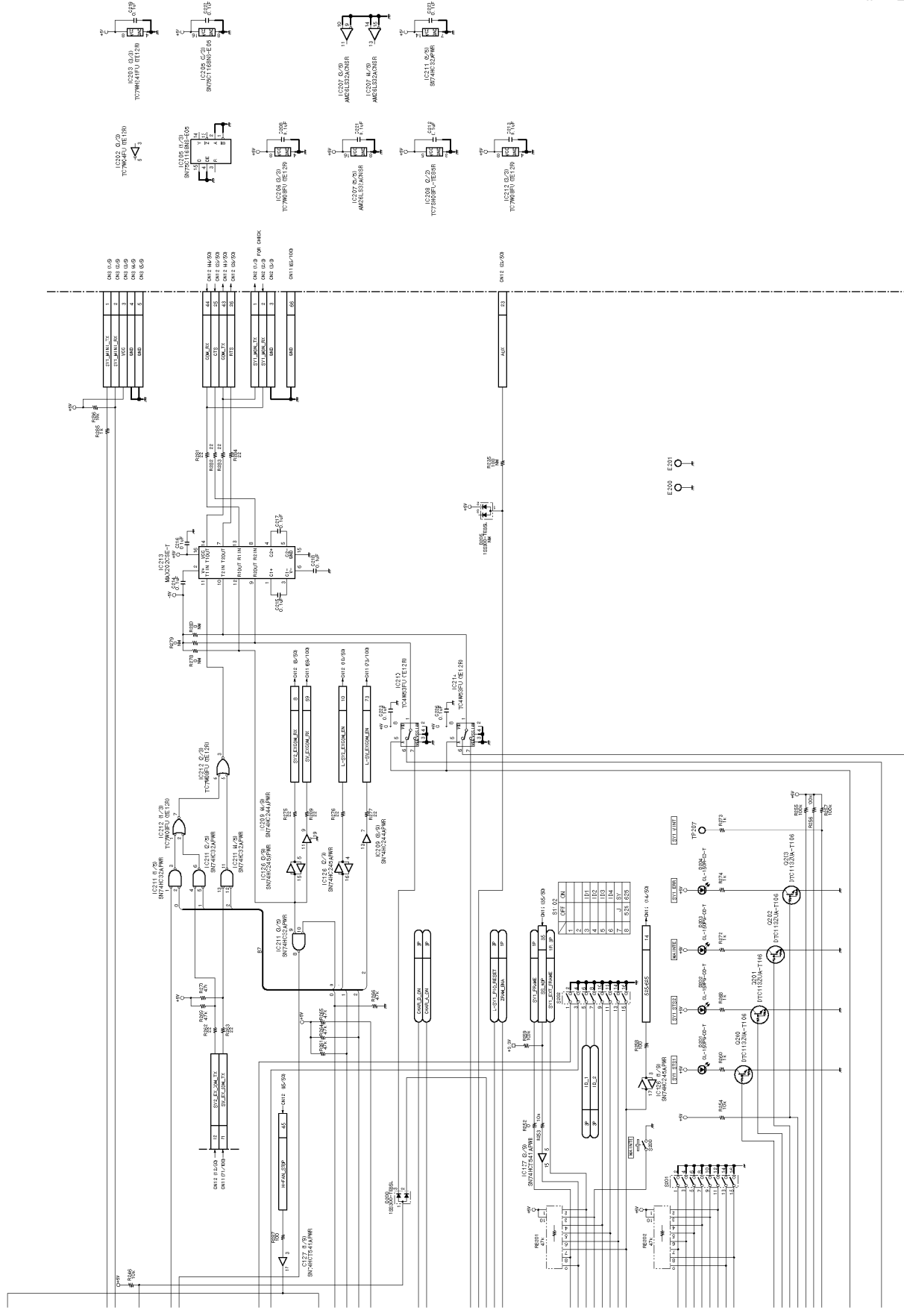




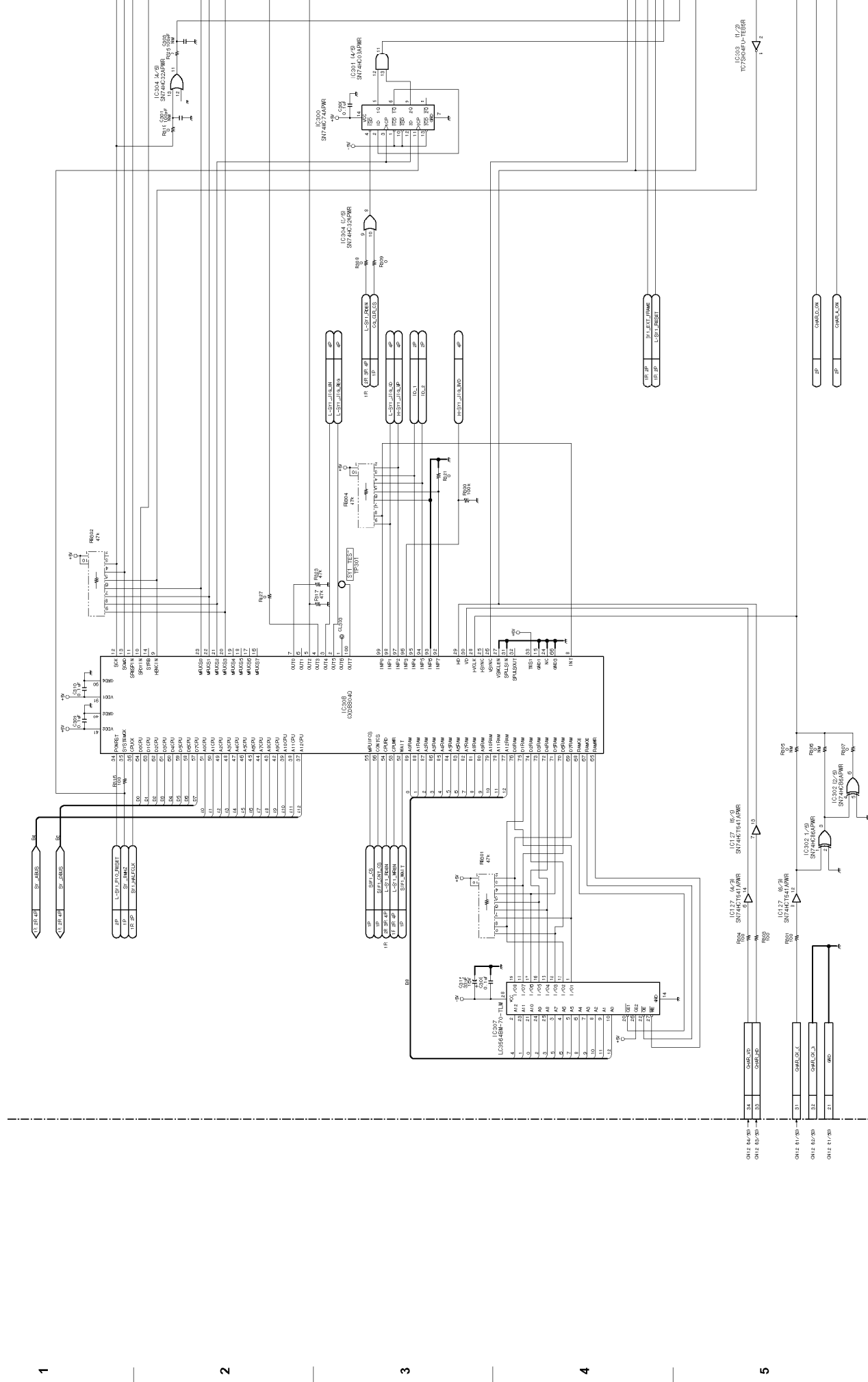
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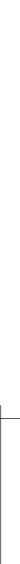
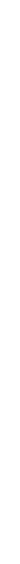
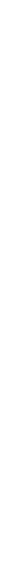
SY-259B (2/4) SY-259B (2/4)



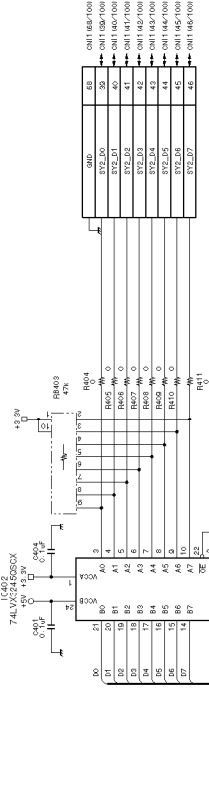
SY-259B (3/4)



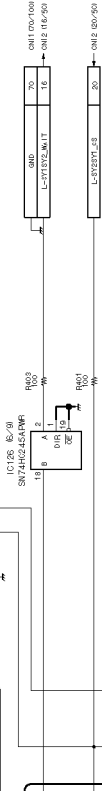
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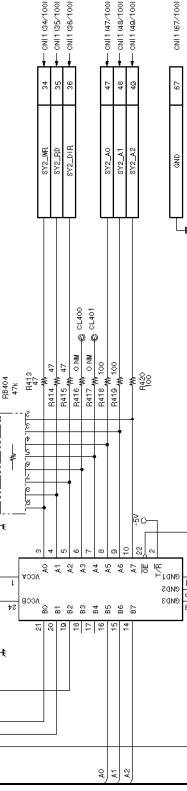
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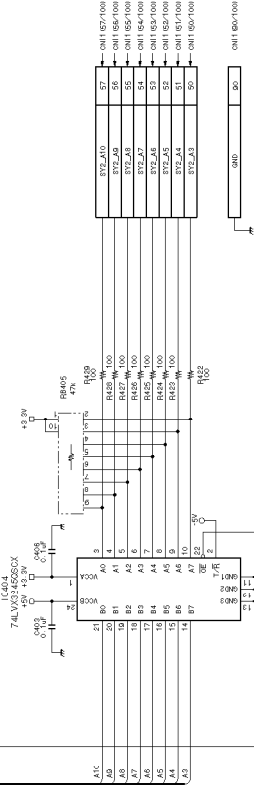
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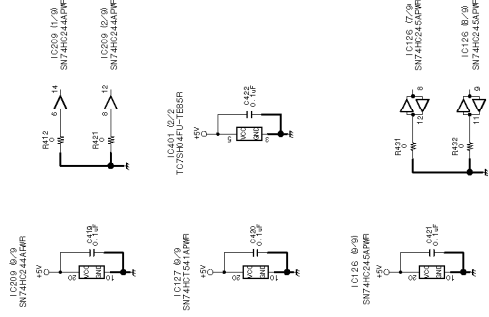
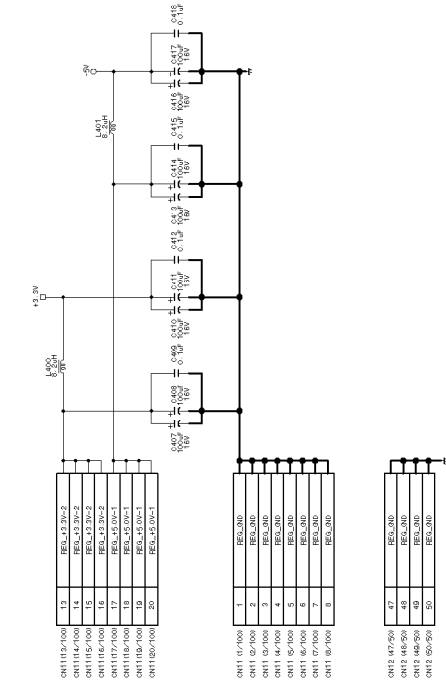
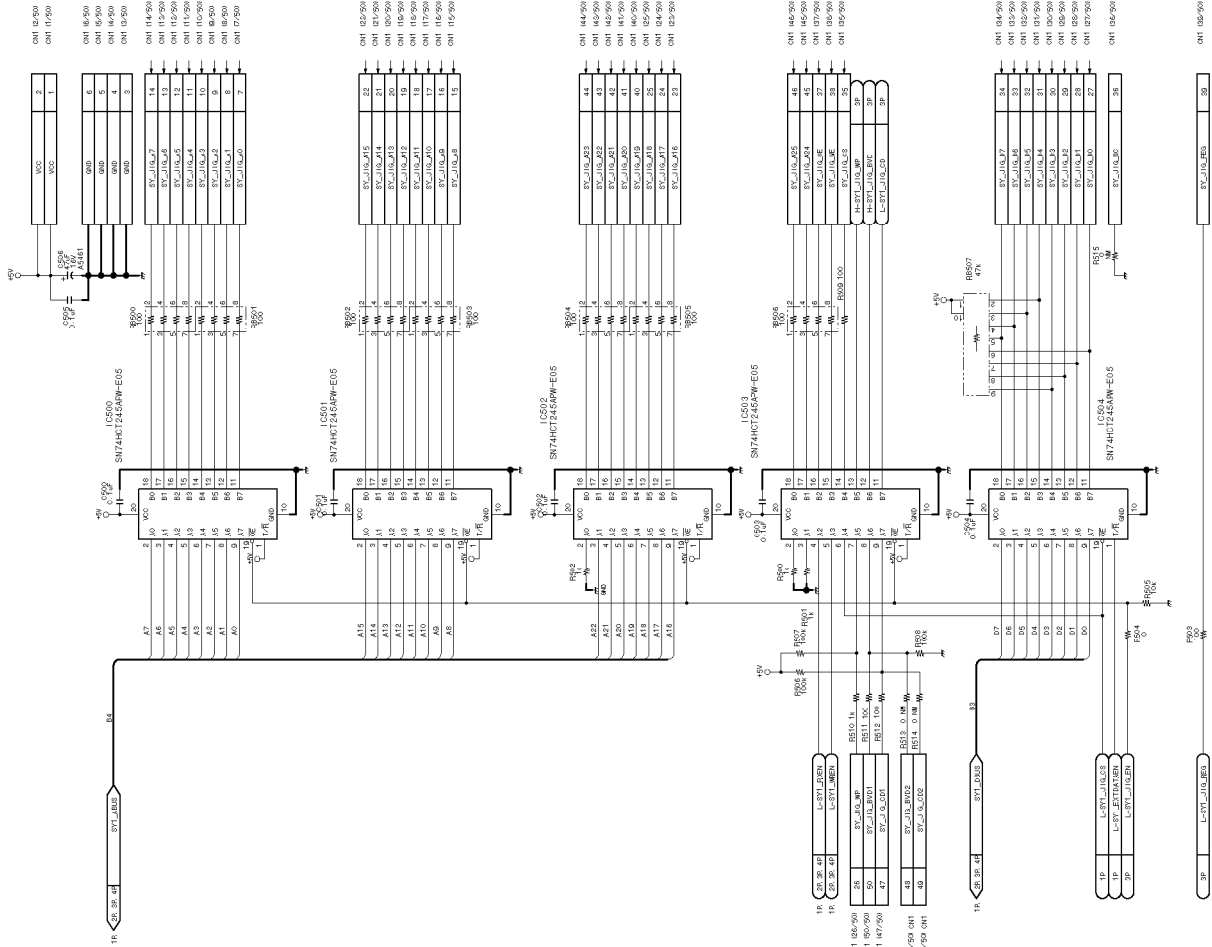


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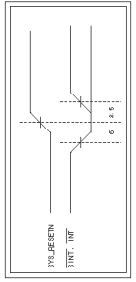


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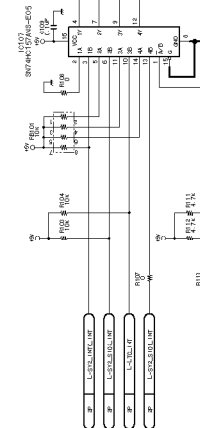




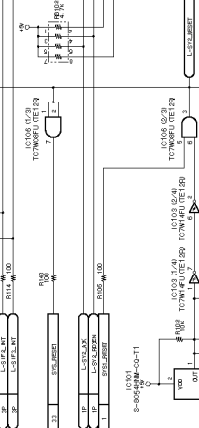
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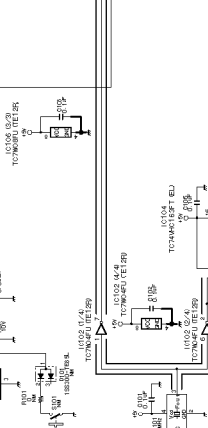
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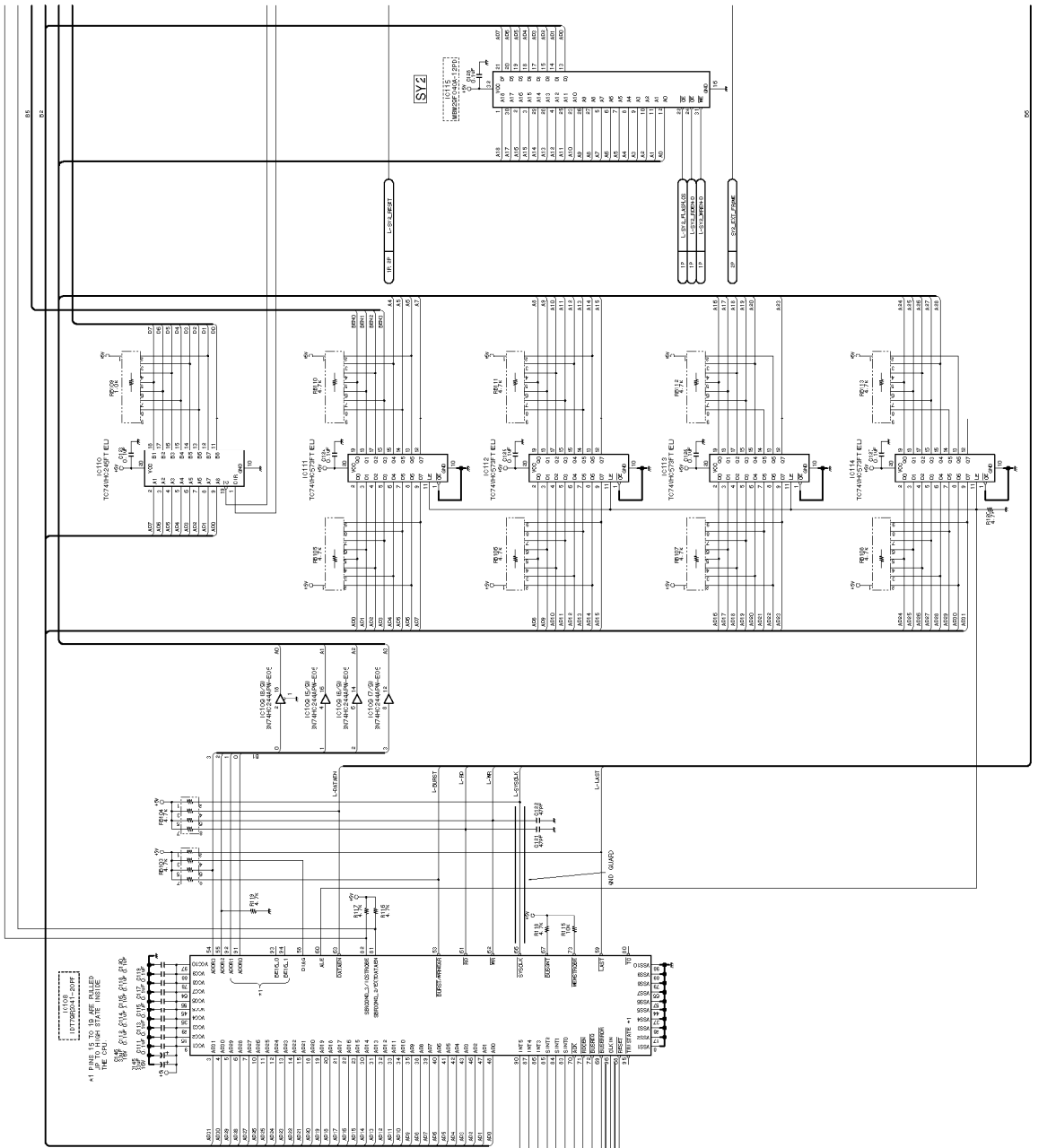
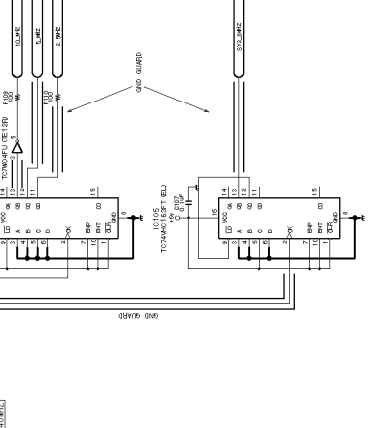
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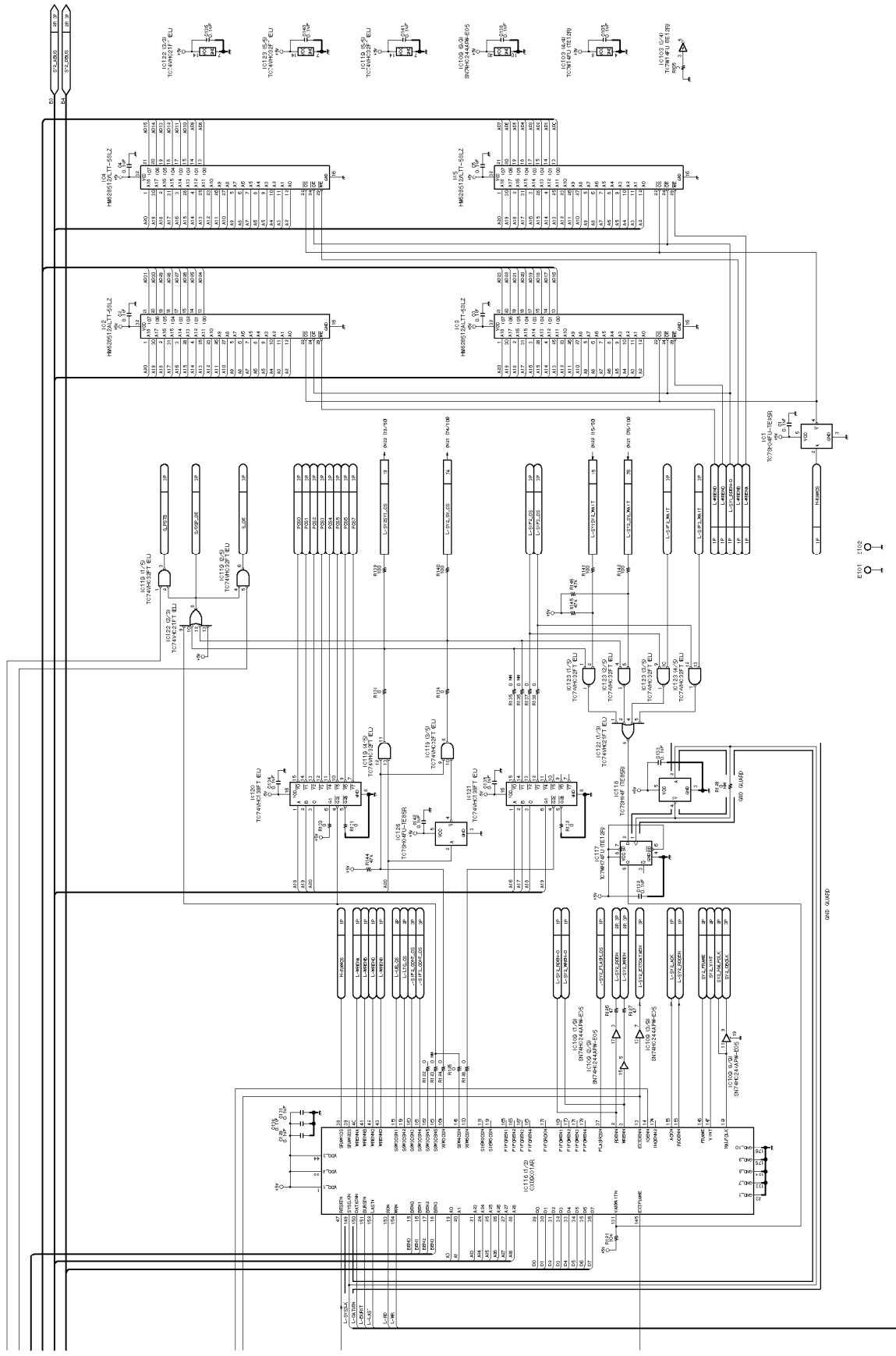
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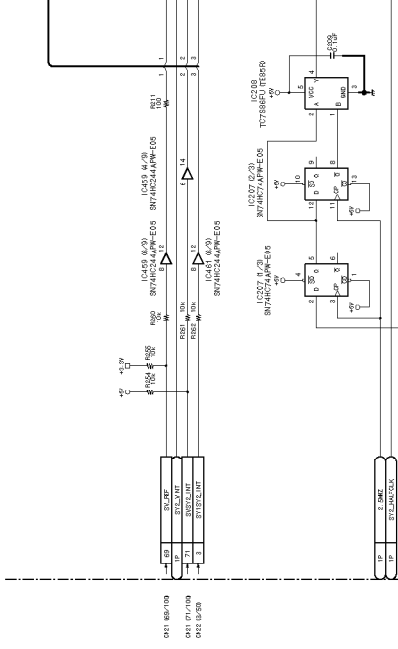
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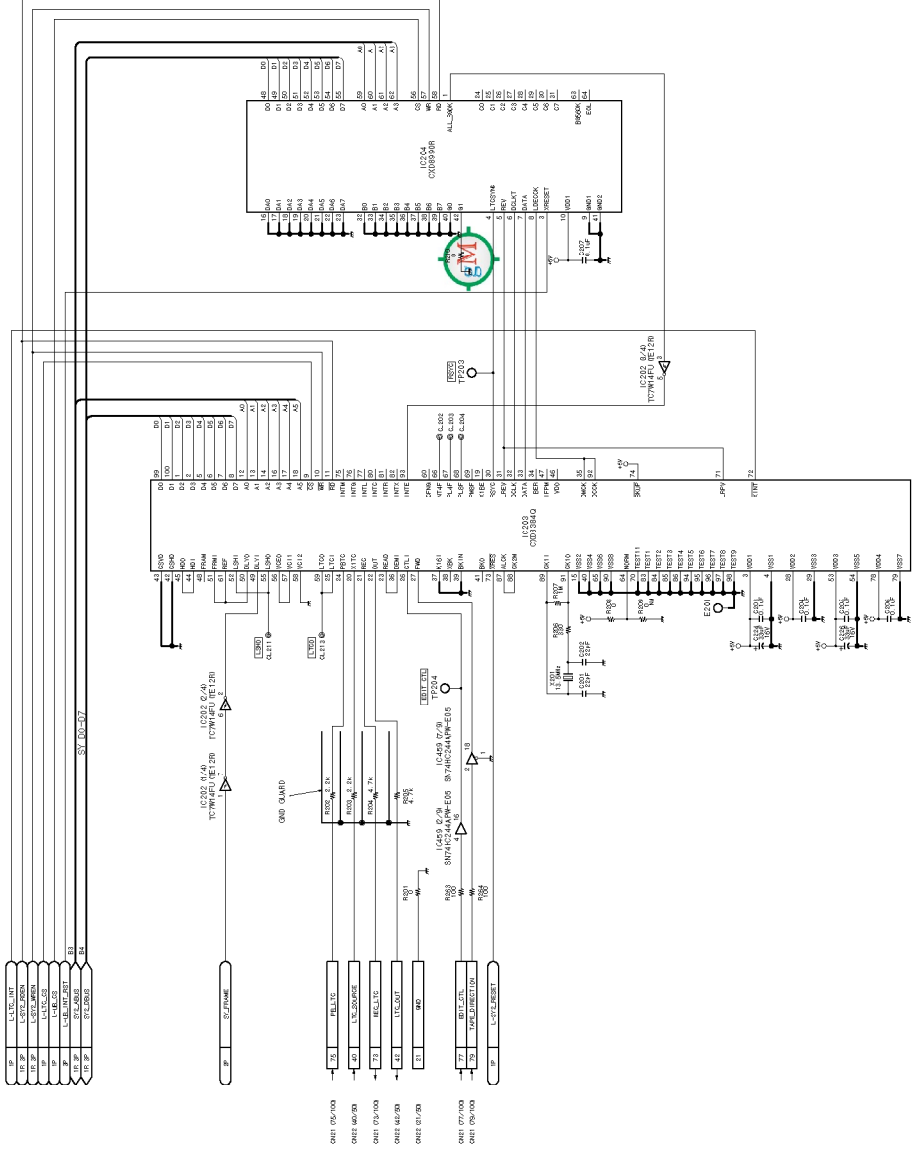


E01 T102

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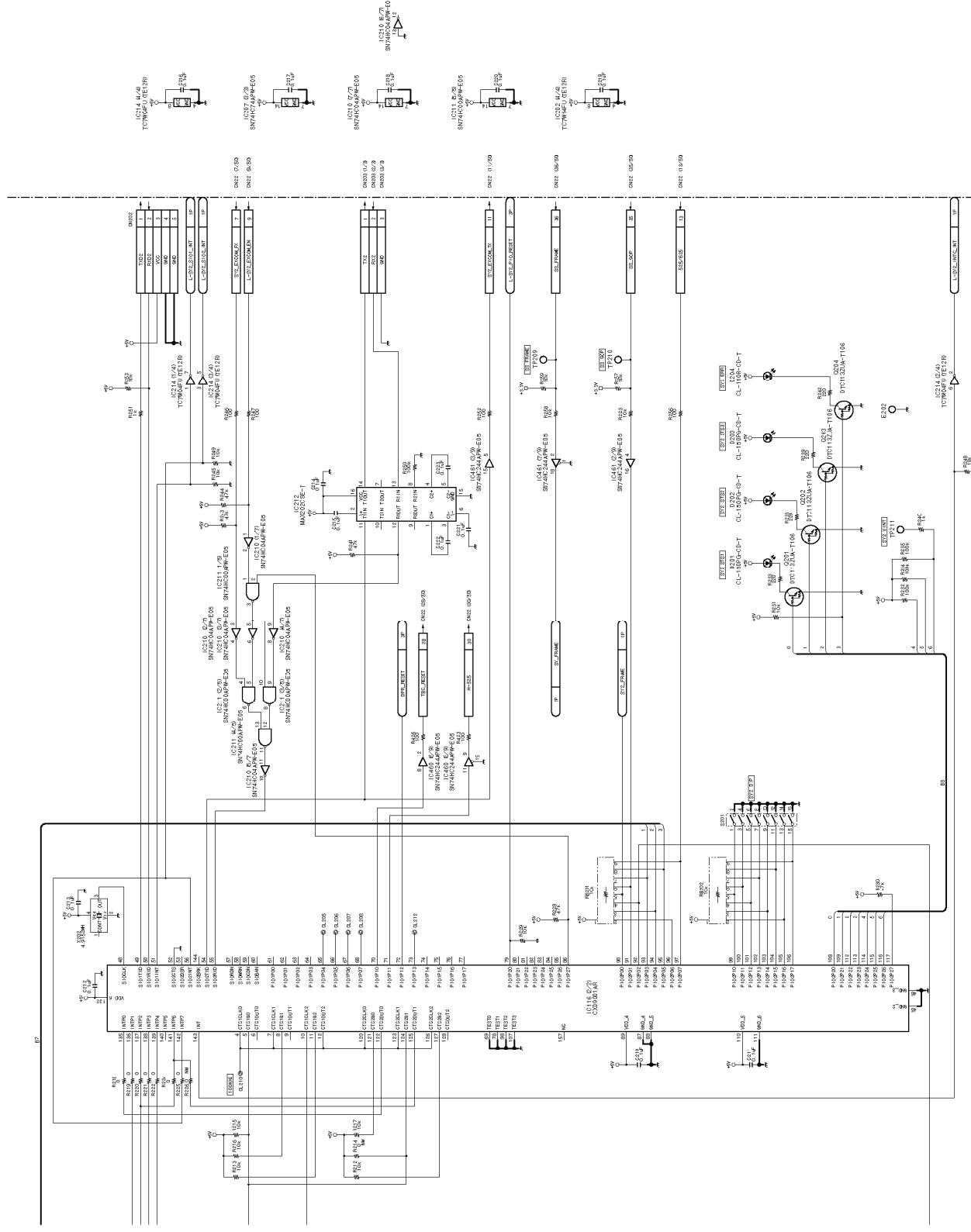
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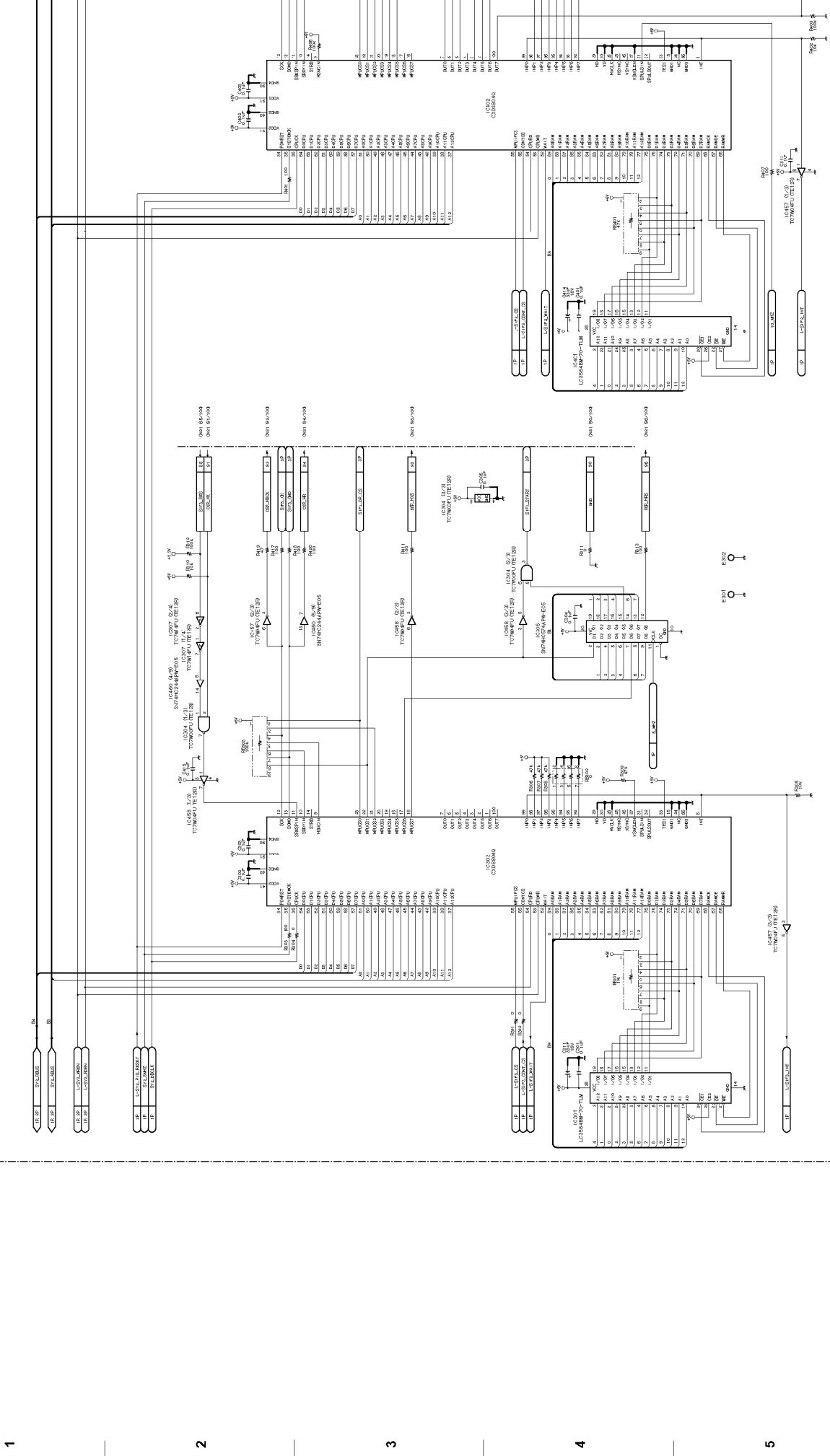
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DNV-A28

DNV-A29P





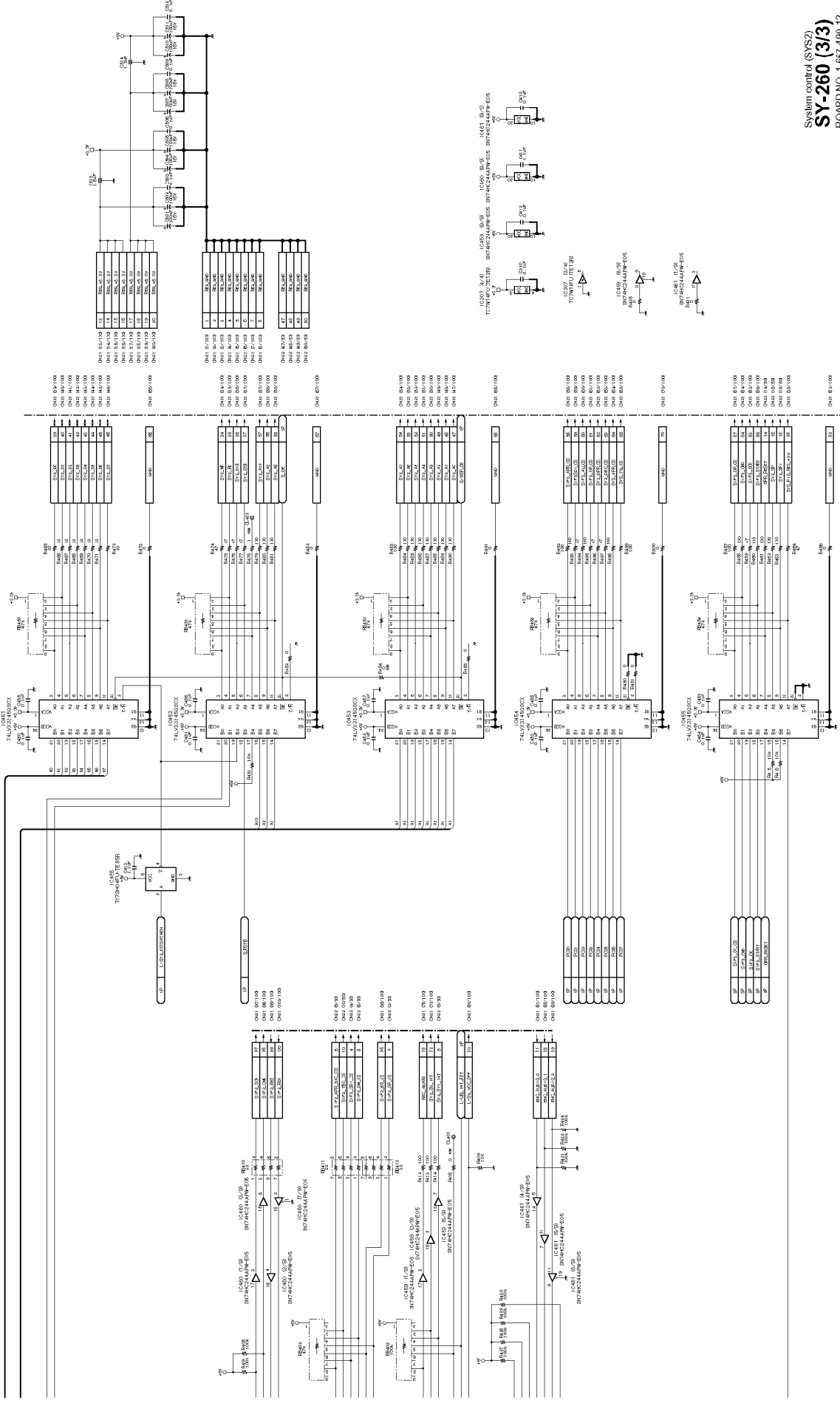
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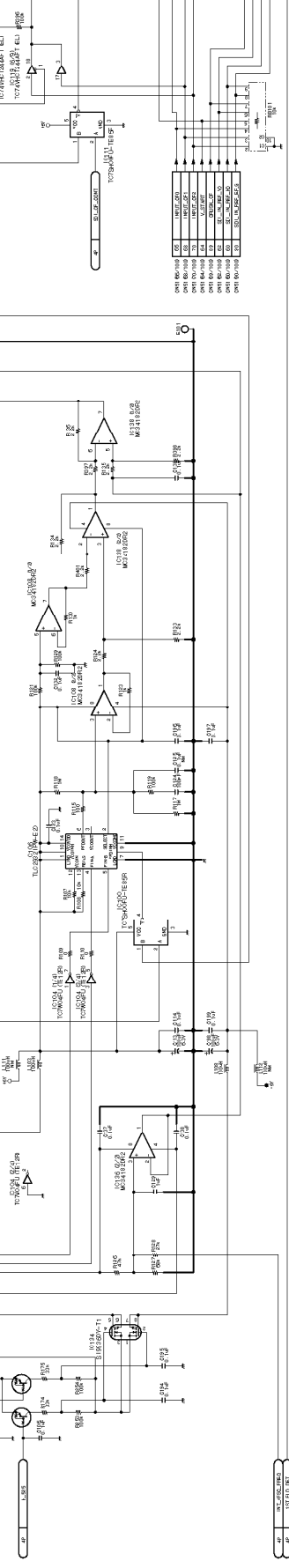
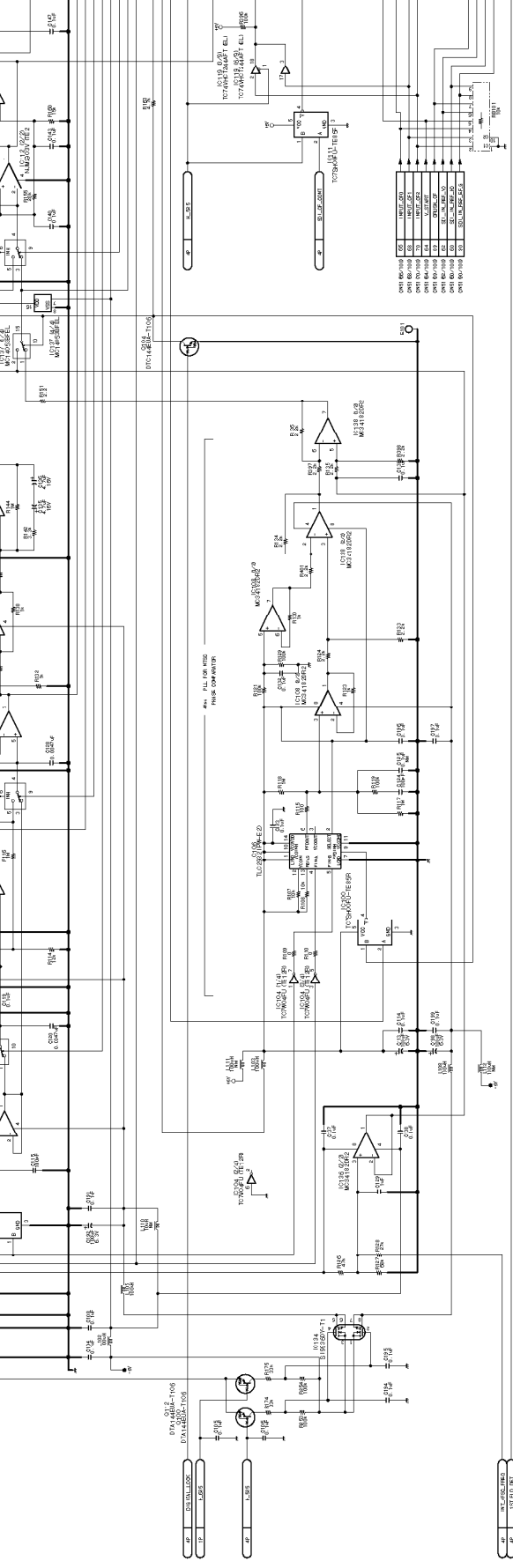
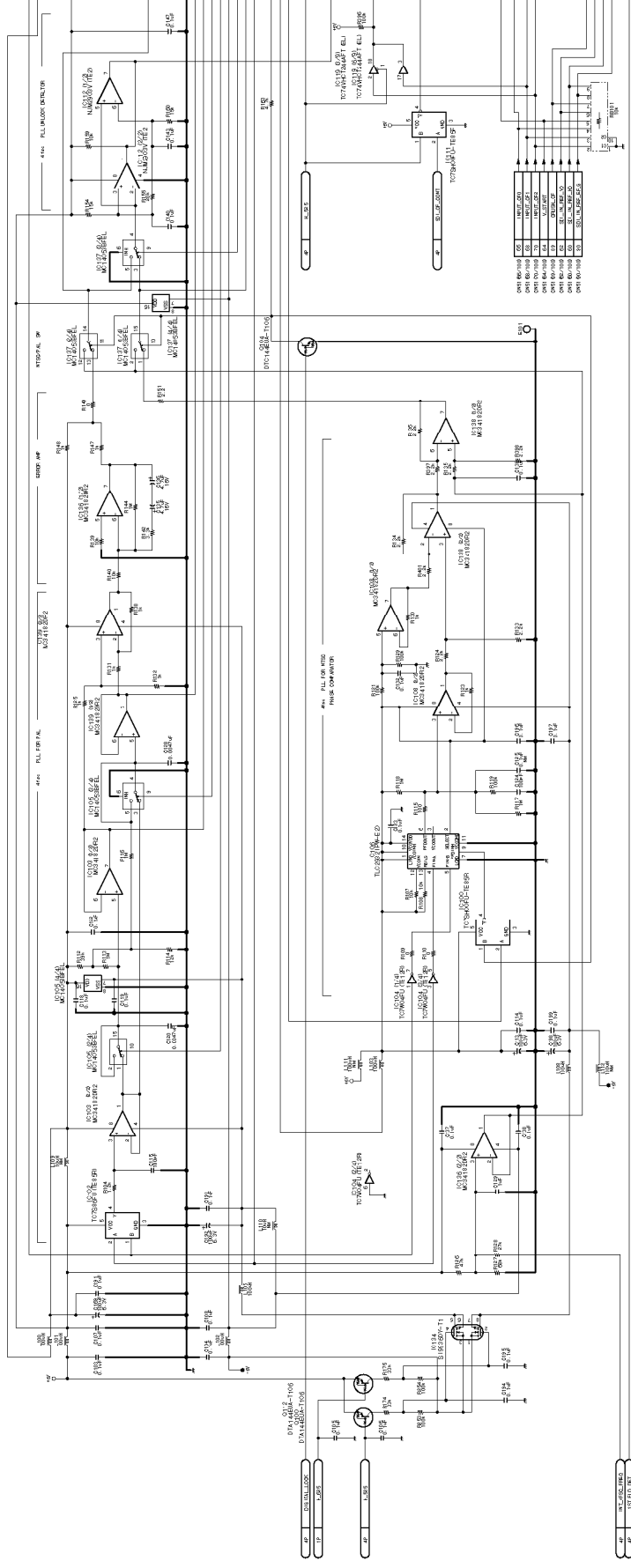
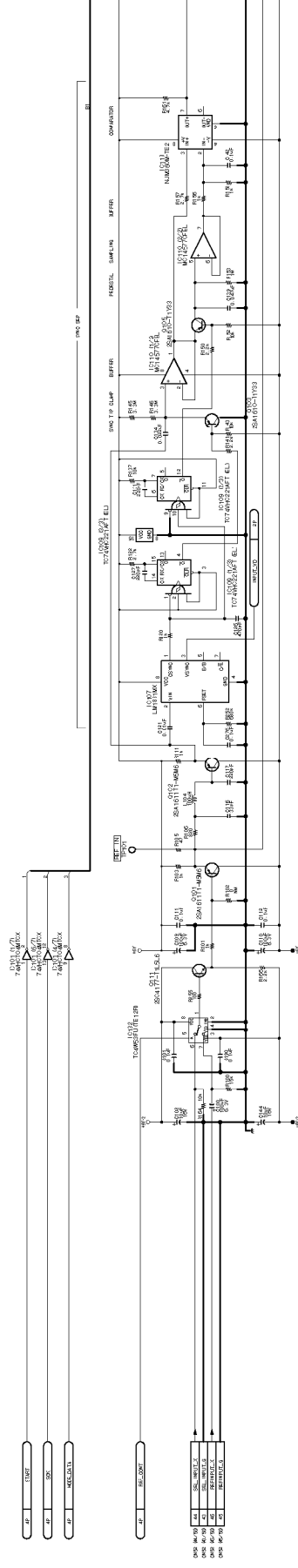
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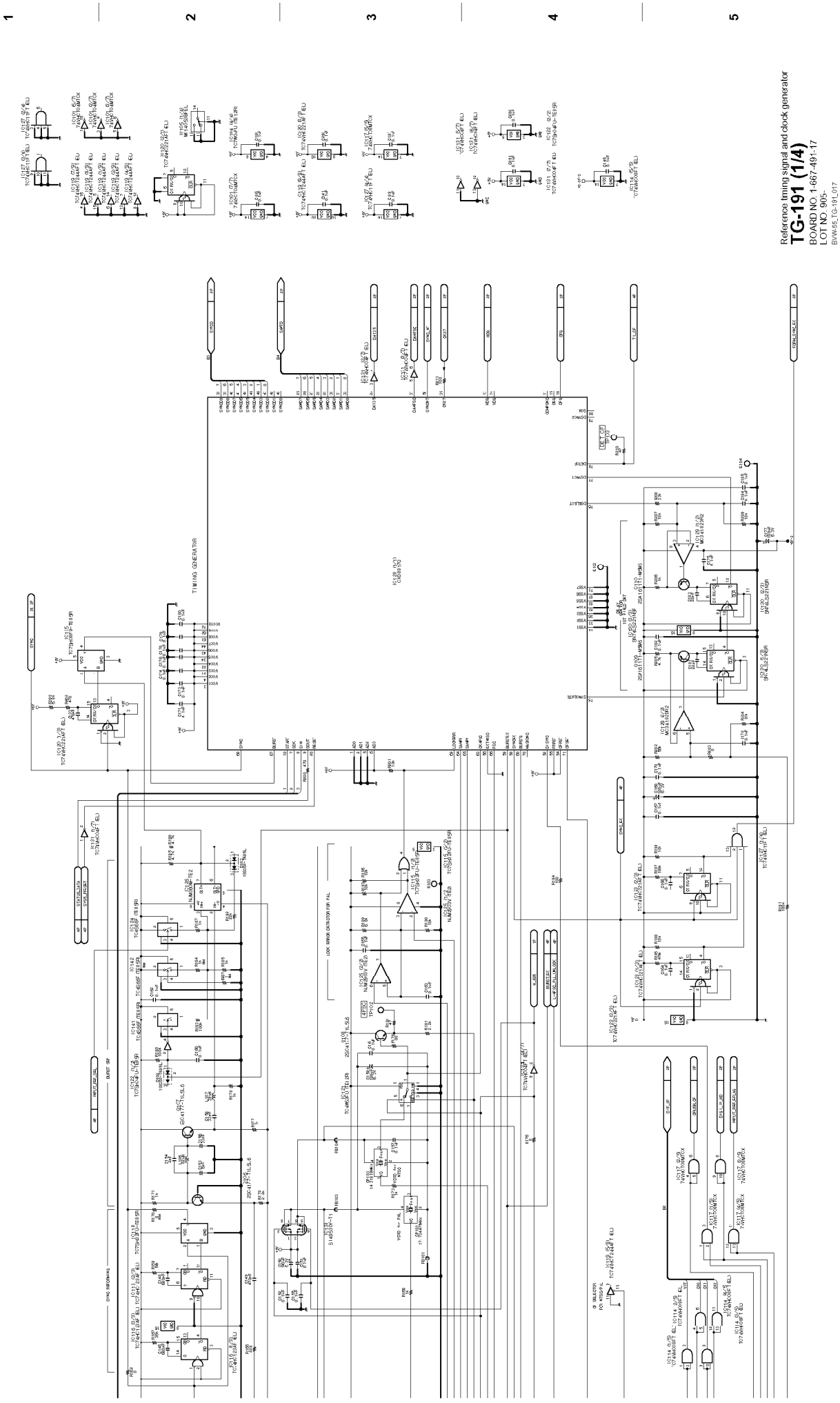
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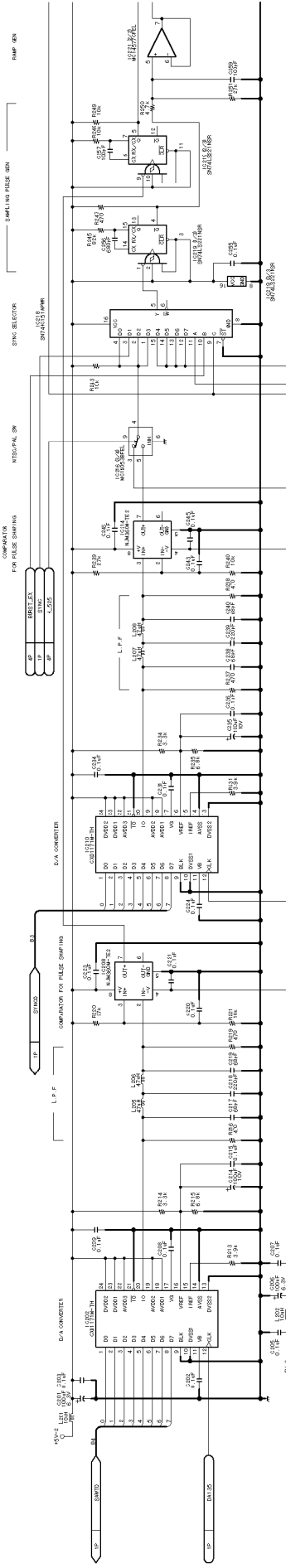


System control (SYS2)
SY-260 (3/3)
BOARD NO. 1-687-490-12
LOT NO. 905-
DNW4220_SY260_001

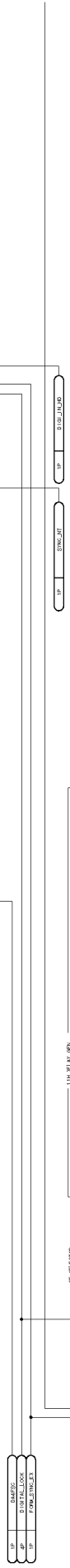




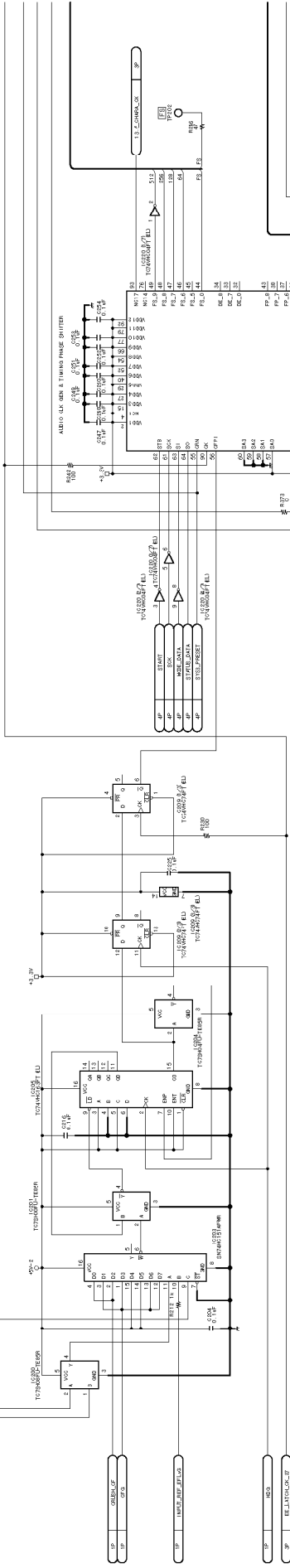
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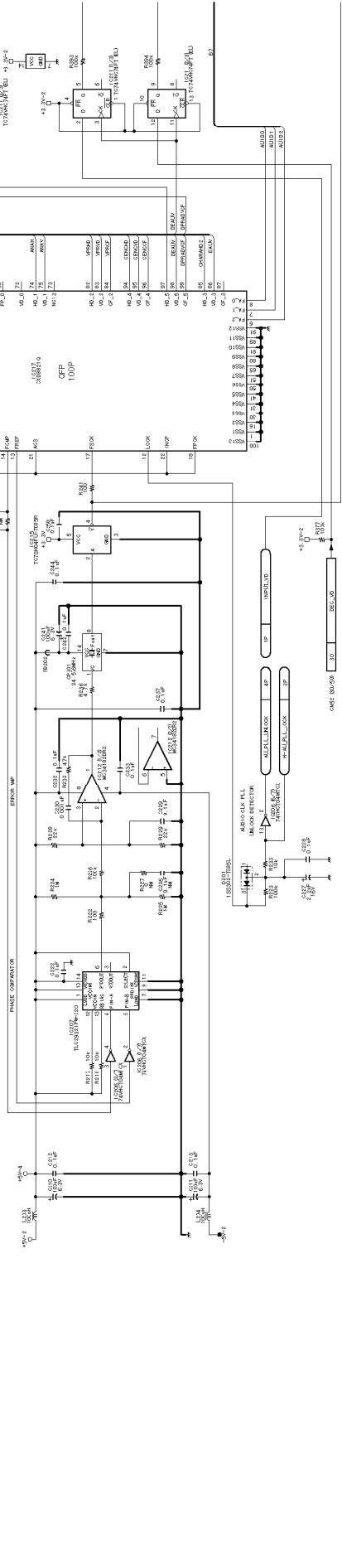
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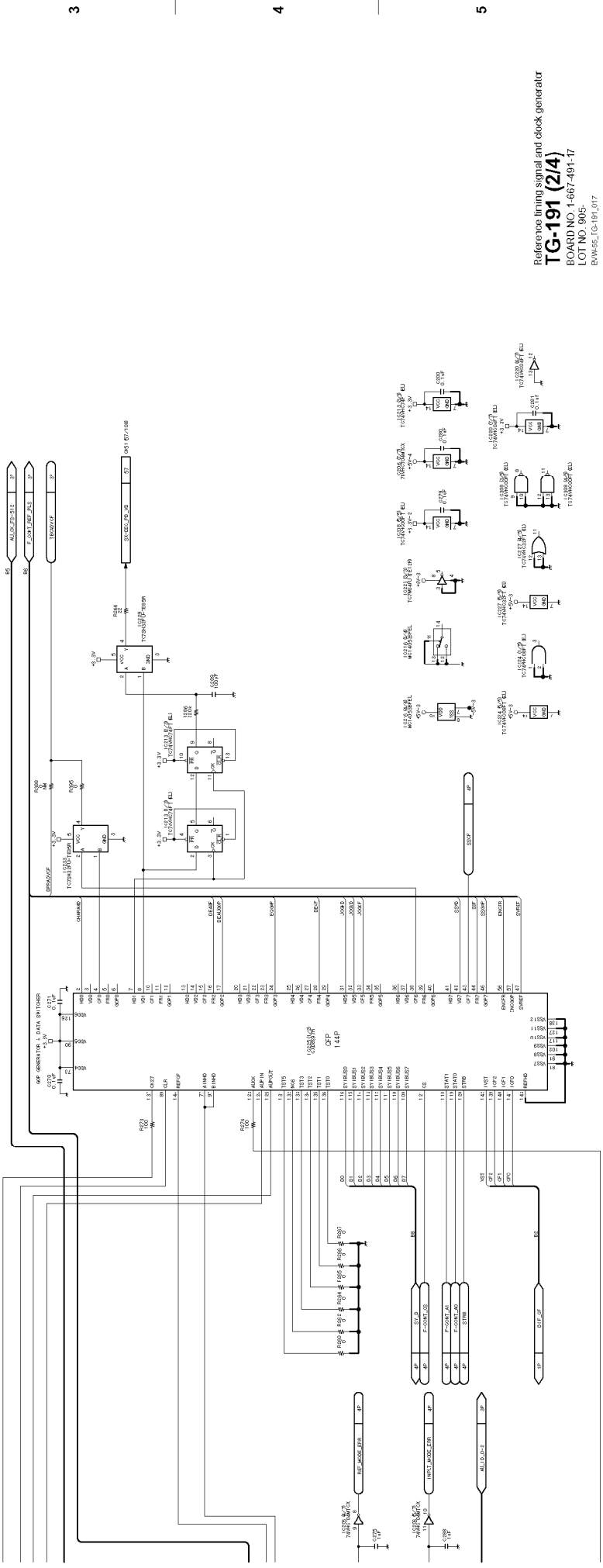
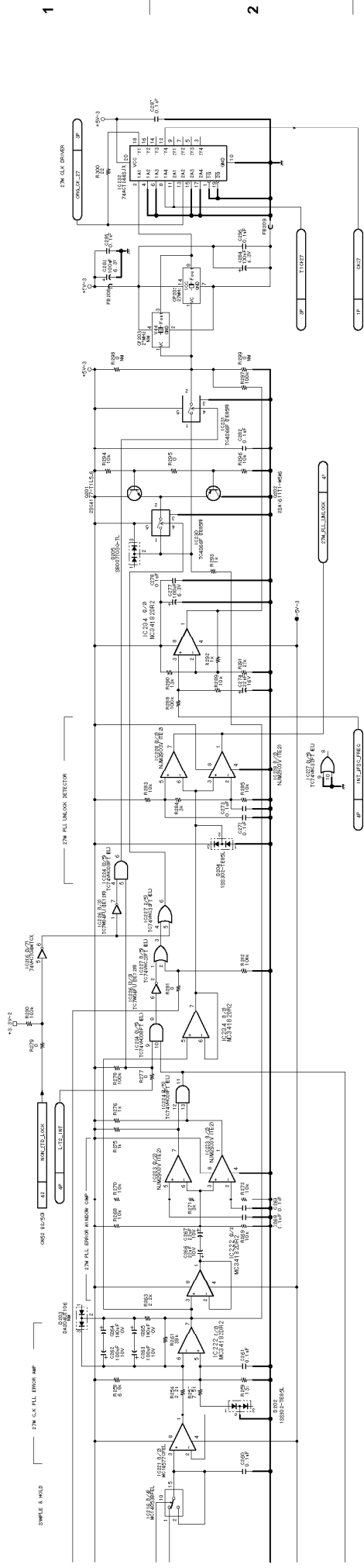
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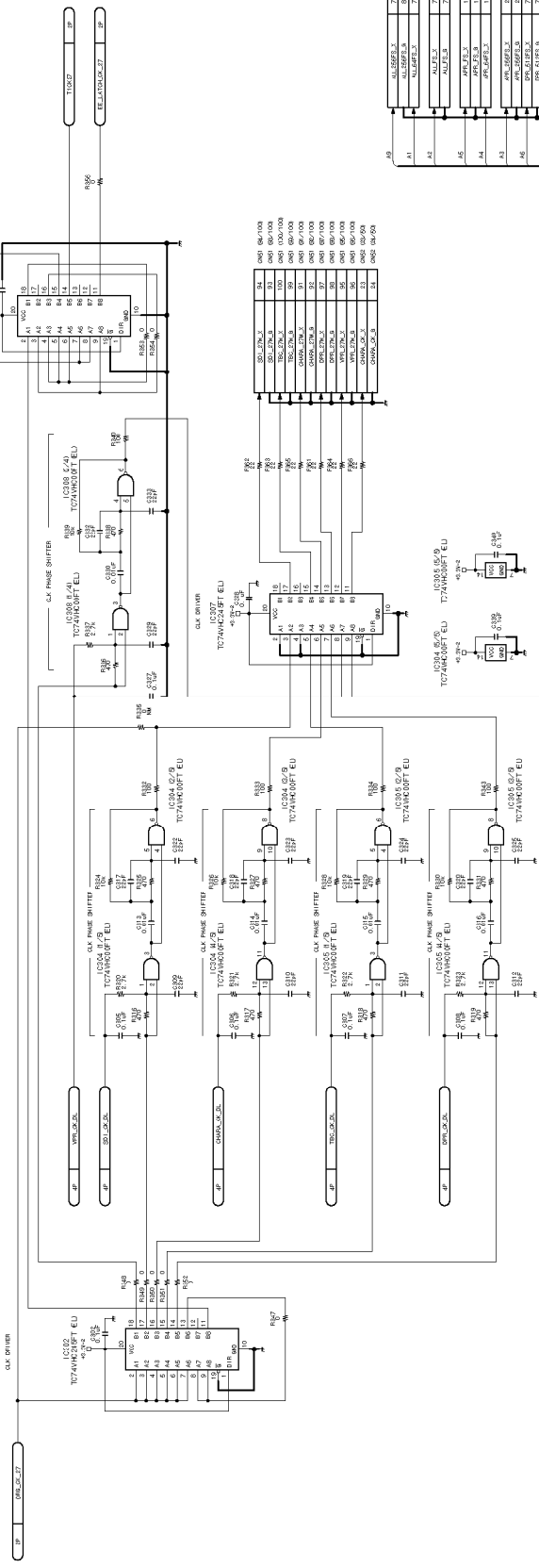


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Reference timing signal and clock generator
TG-191 (2/4)
BOARD NO 1-687-491-17
LOT NO 905
E0M455_1G-191_017

1

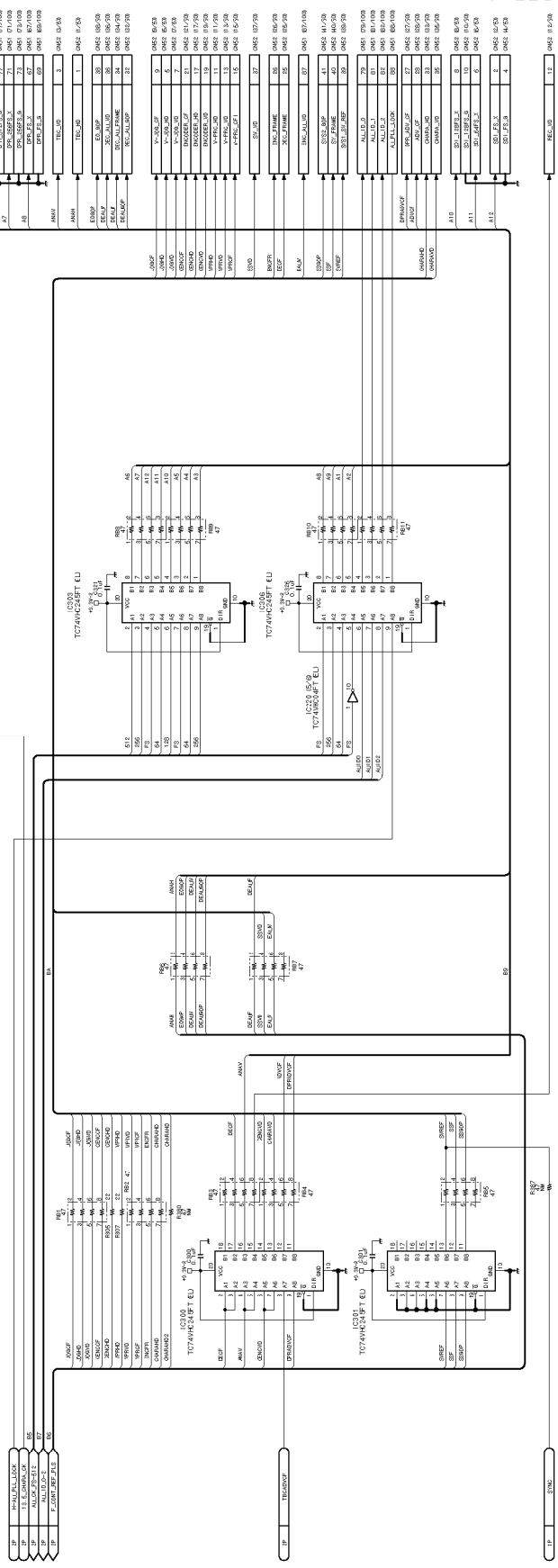


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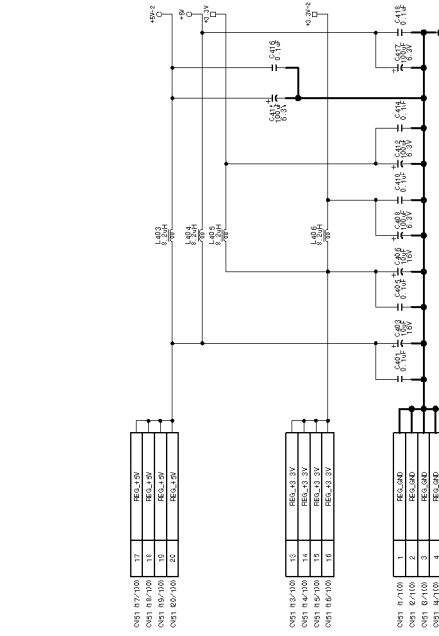
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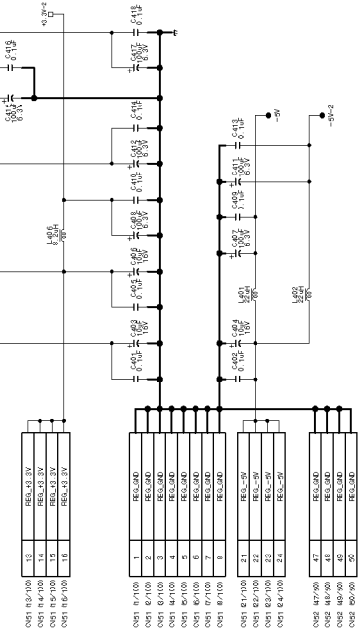


Reference timing signal and clock generator
TG-191 (3/4)
BOARD NO. 1-667-491-17
LOT NO. 905
BMW-55-TG-191_017

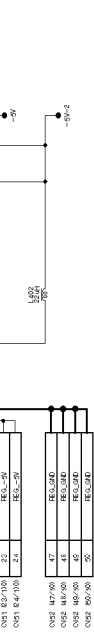
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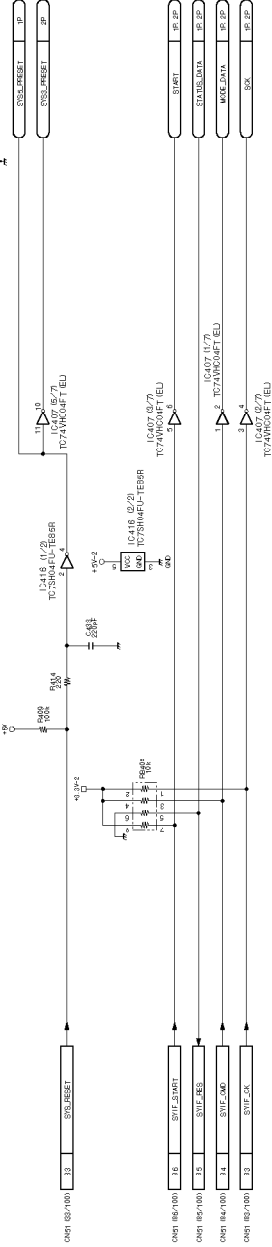
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4

0N01 8/1/100	9	N.C.
0N01 10/1/100	10	N.C.
0N01 11/1/100	11	N.C.
0N01 12/1/100	12	N.C.
0N01 13/1/100	13	N.C.
0N01 14/1/100	14	N.C.
0N01 15/1/100	15	N.C.
0N01 16/1/100	16	N.C.
0N01 17/1/100	17	N.C.
0N01 18/1/100	18	N.C.
0N01 19/1/100	19	N.C.
0N01 20/1/100	20	N.C.
0N01 21/1/100	21	N.C.
0N01 22/1/100	22	N.C.
0N01 23/1/100	23	N.C.
0N01 24/1/100	24	N.C.
0N01 25/1/100	25	N.C.
0N01 26/1/100	26	N.C.
0N01 27/1/100	27	N.C.
0N01 28/1/100	28	N.C.
0N01 29/1/100	29	N.C.
0N01 30/1/100	30	N.C.

5



4-132

4-132

E

A

B

C

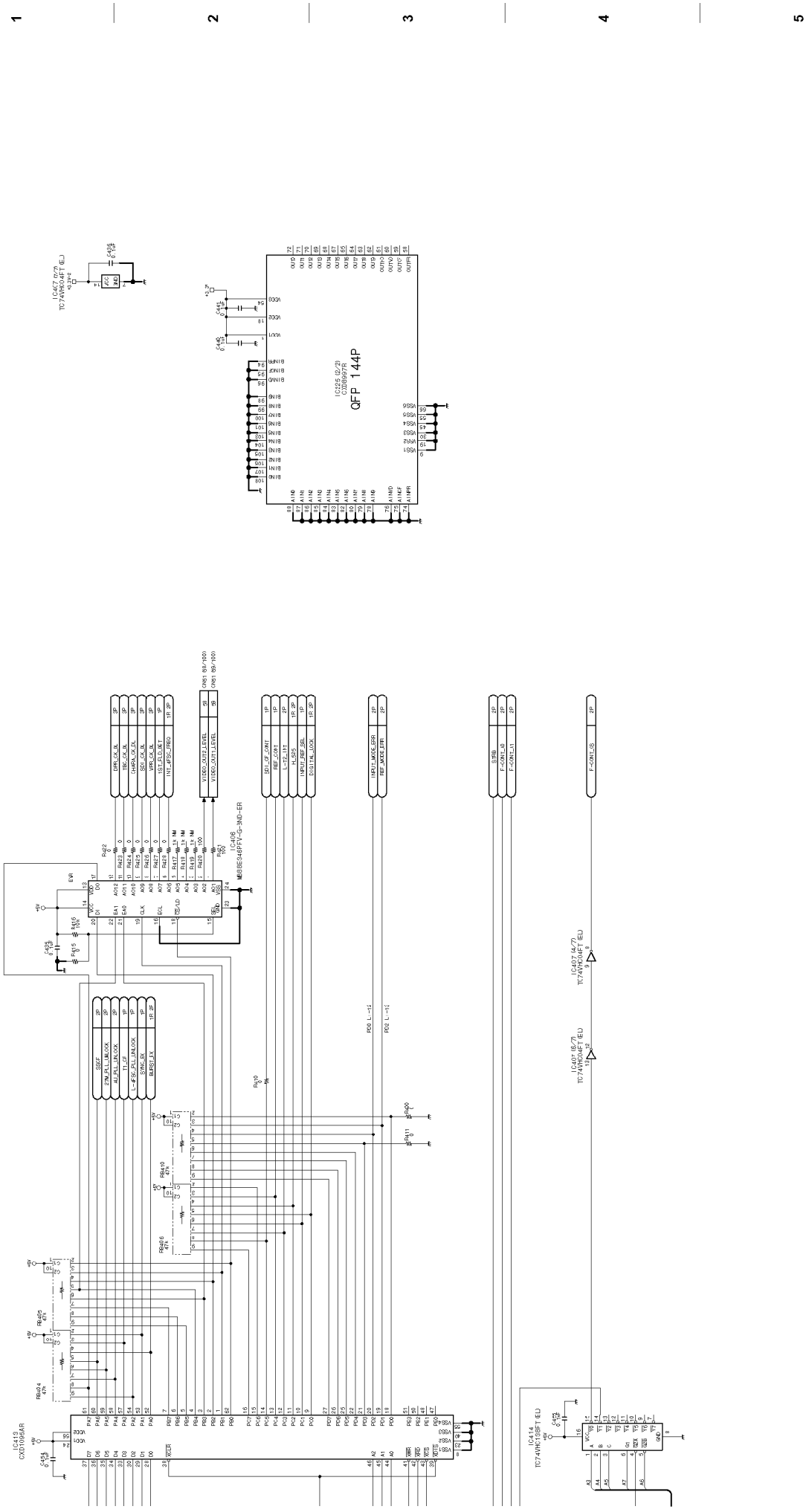
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E

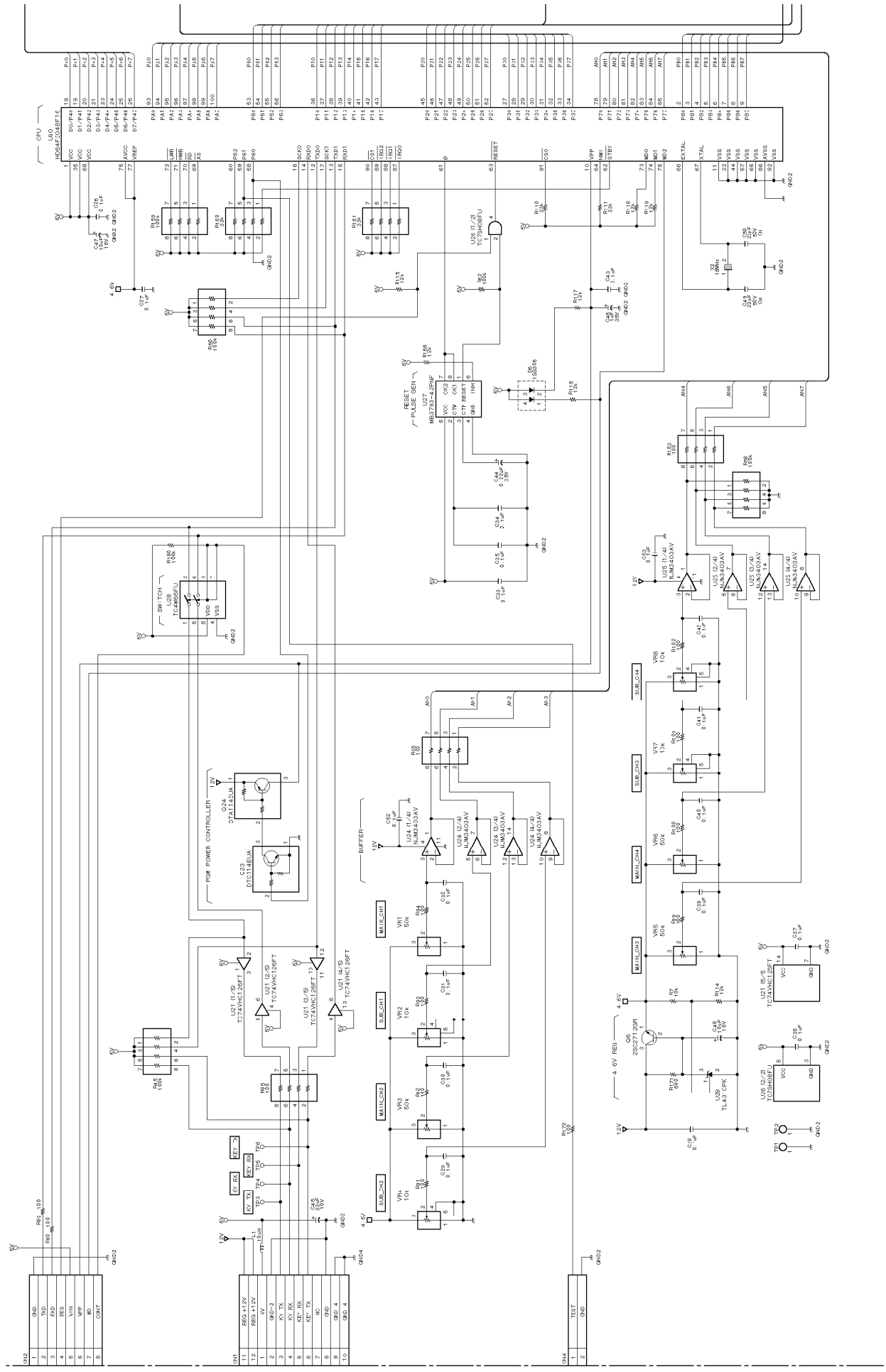
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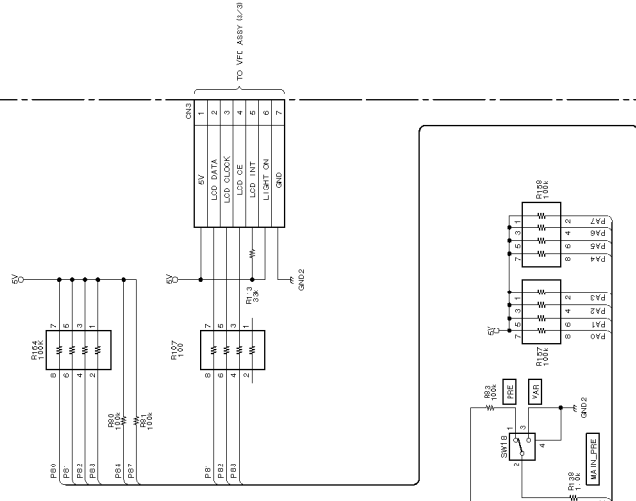
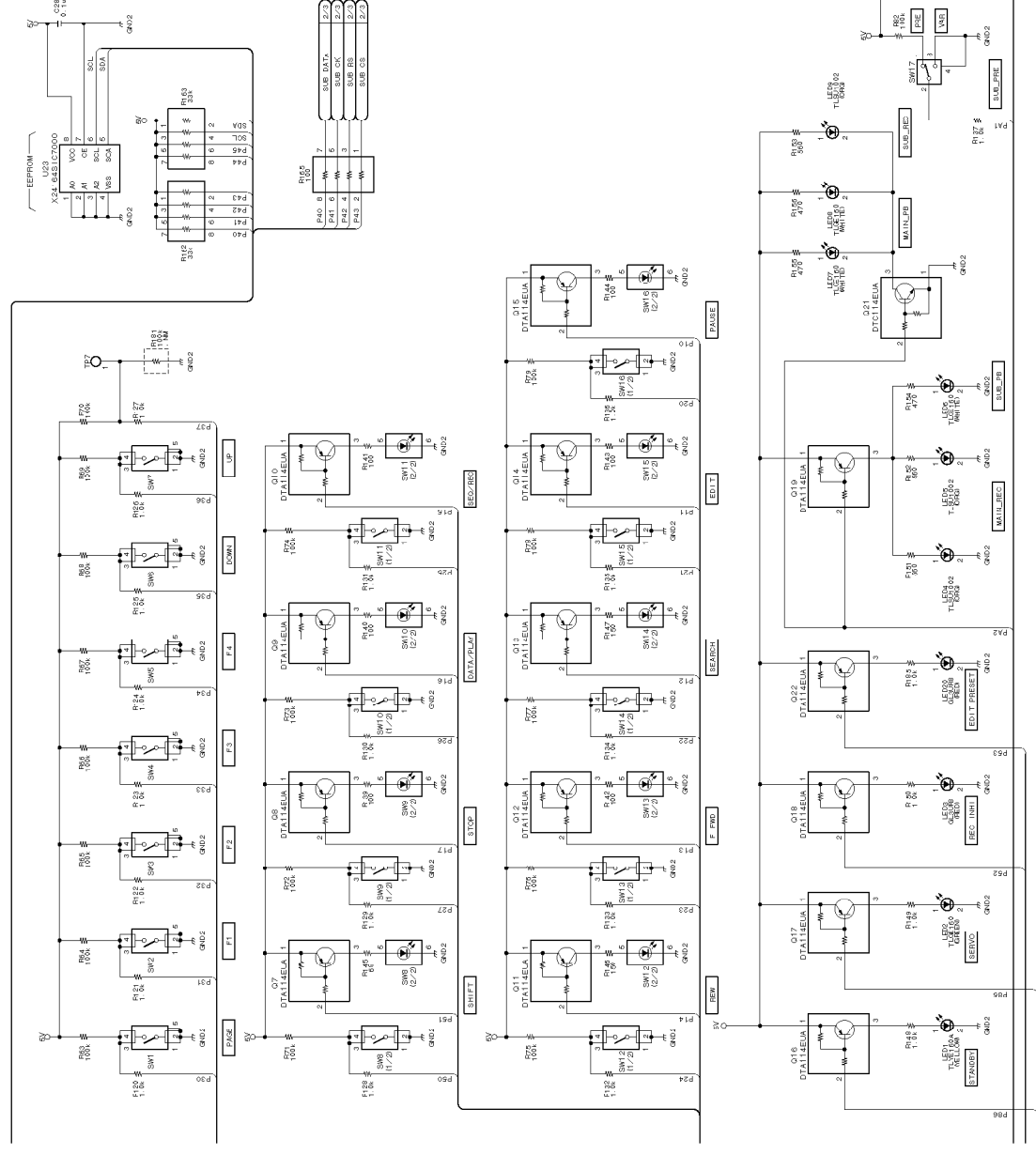
G

DNV-A08
DNV-A29P
H



Reference timing signal and clock generator
TG-191 (4/4)
BOARD NO. 1-687-491-17
LOT NO. 905
E09455_1G-191_017

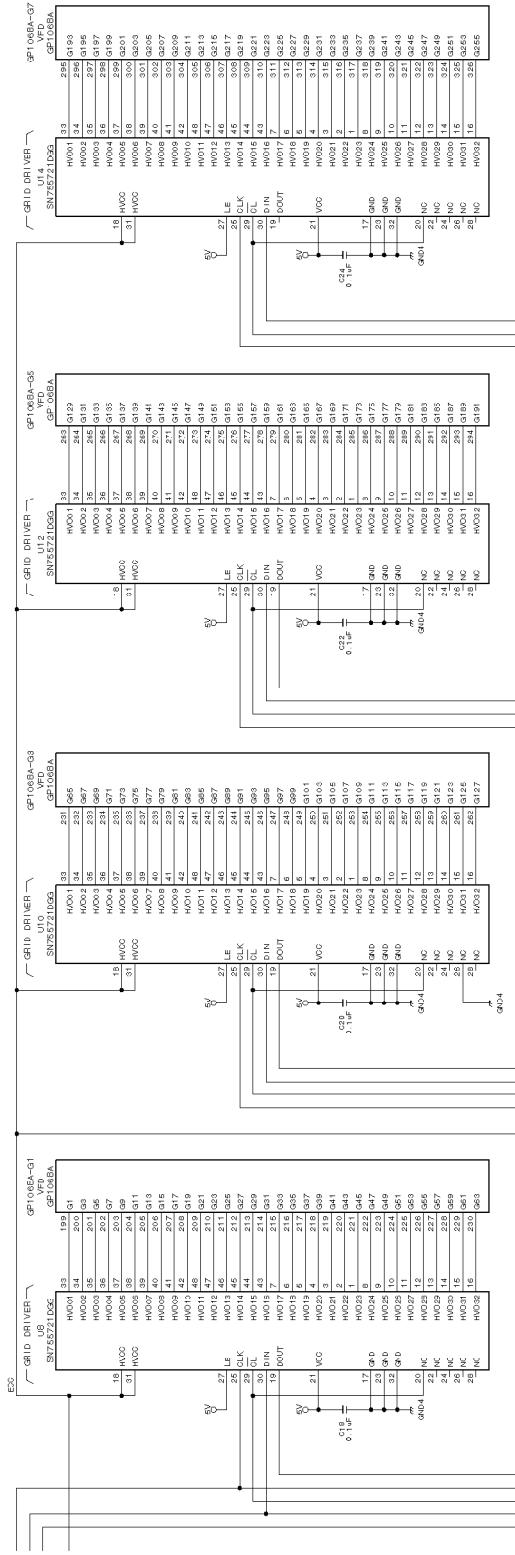




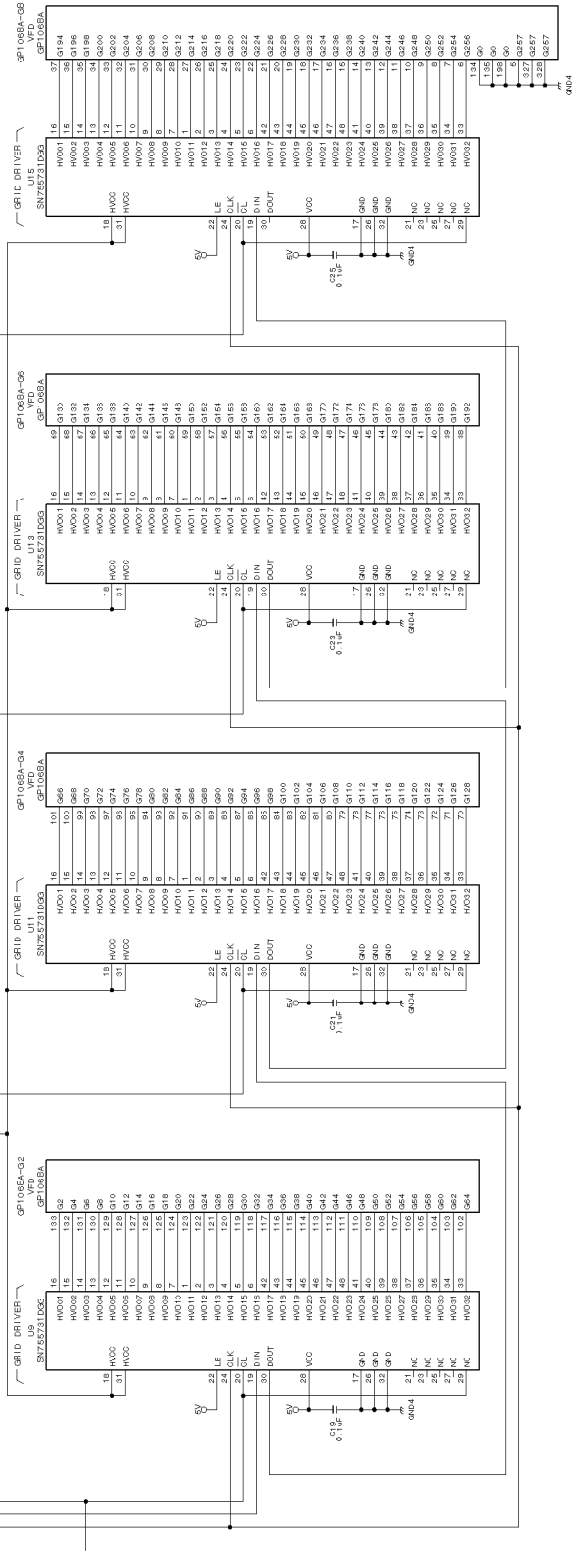
VFD assembly (2/3)



1

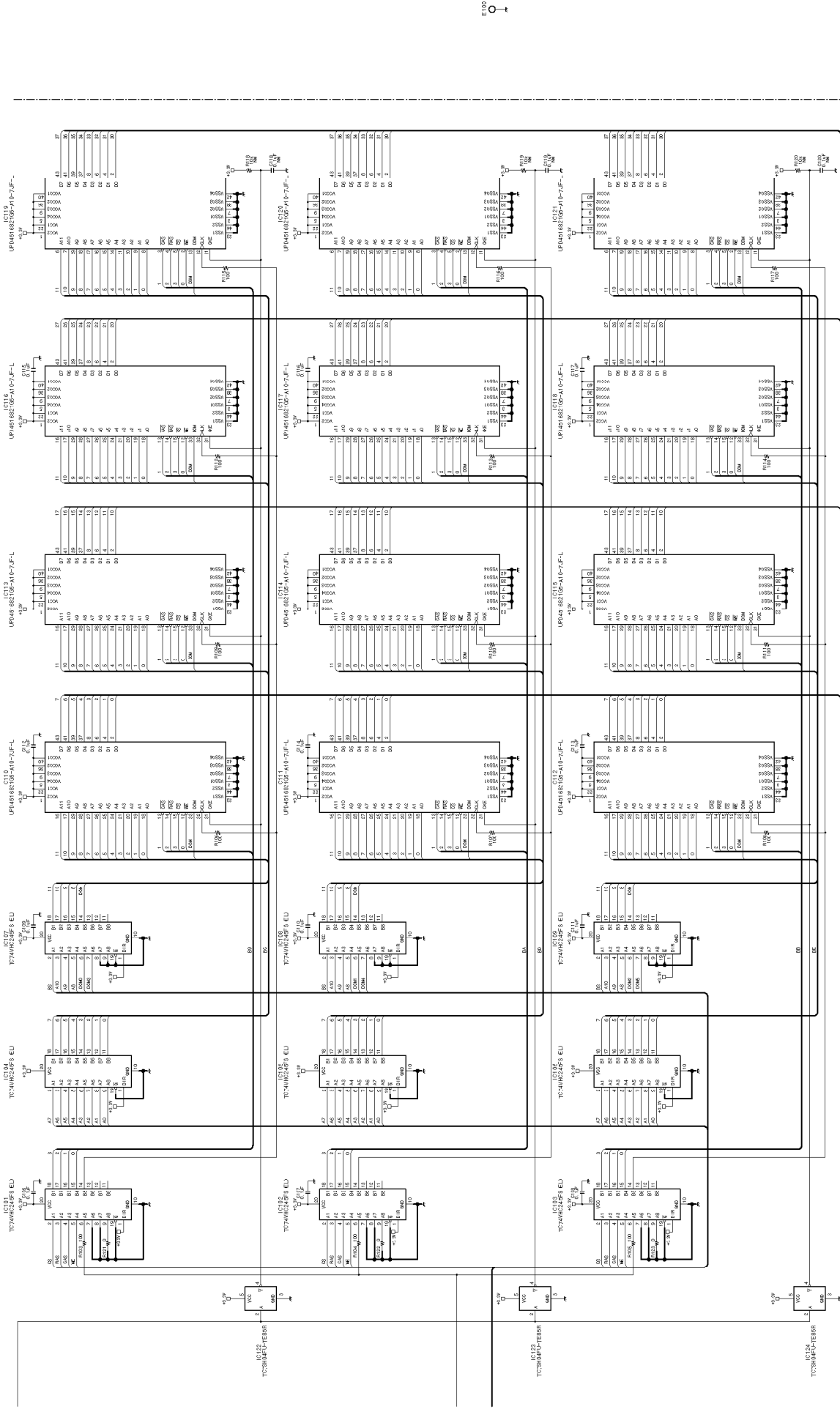


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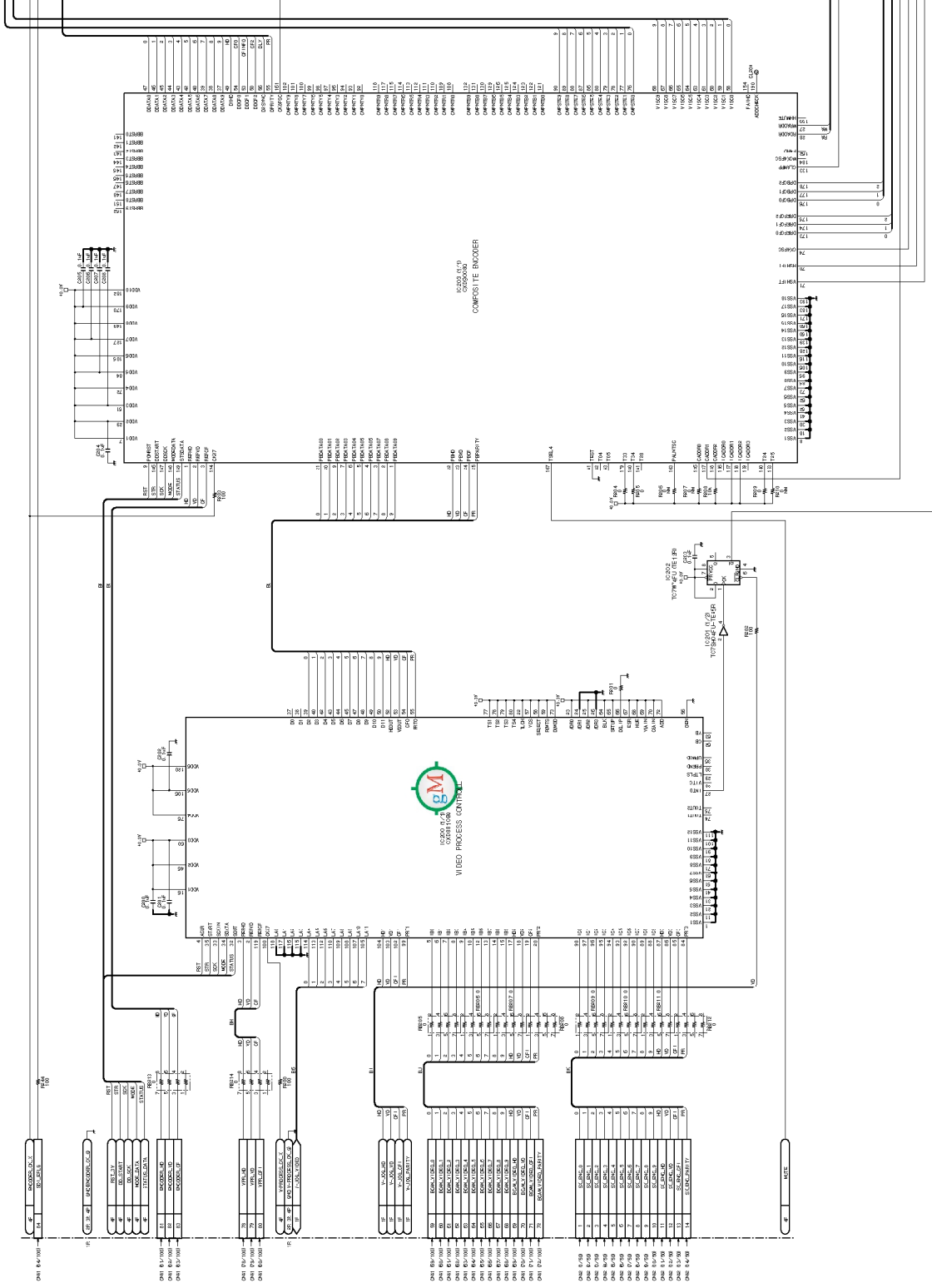


4

5



1



2

3

4

5

4-142

4-142

DNV-A28
DNV-A29P

A

B

C

D

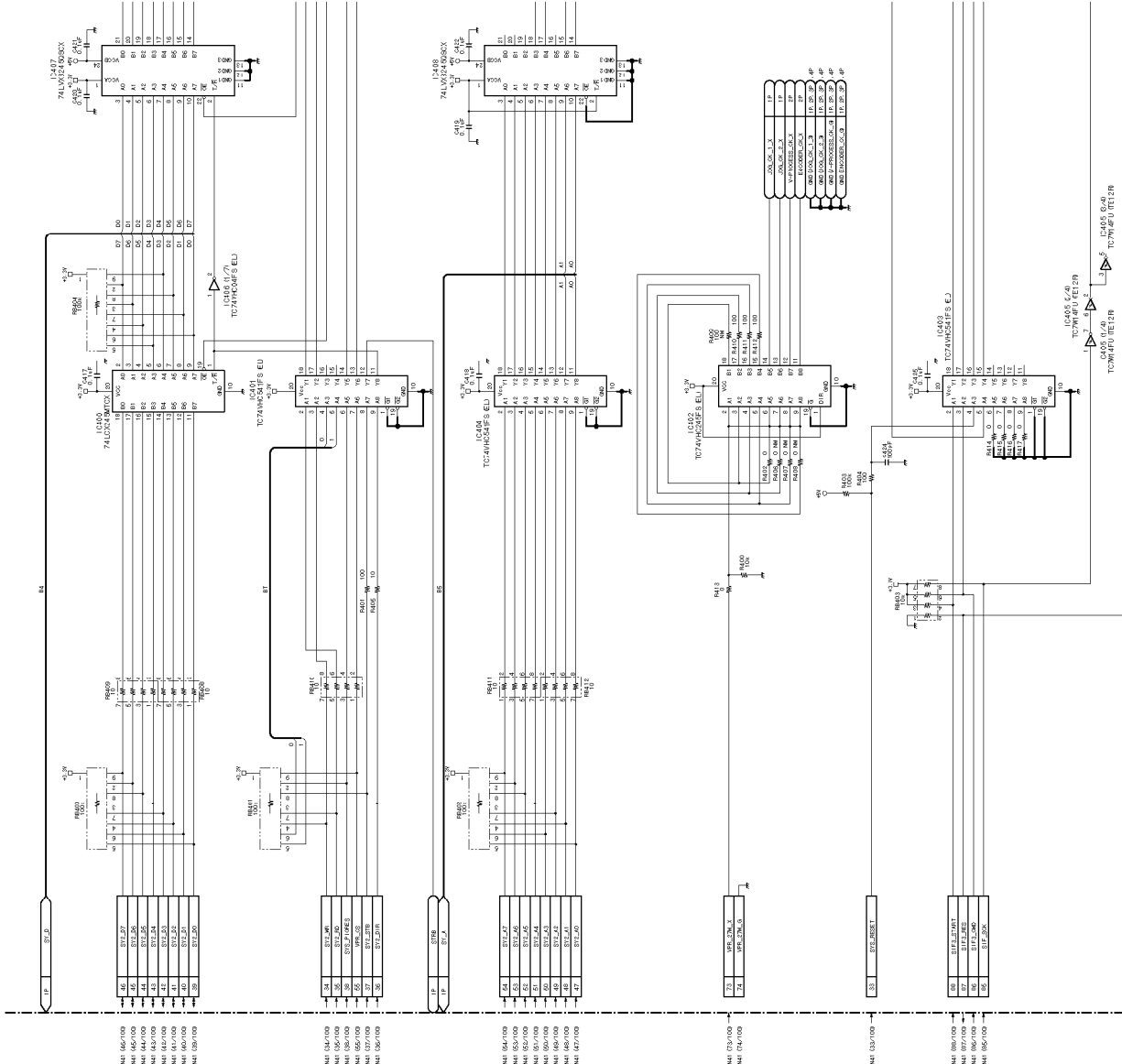
E

F

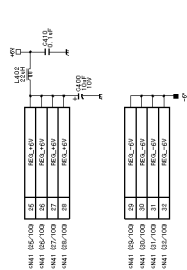
G

H

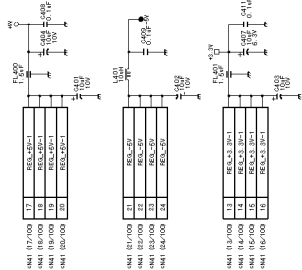
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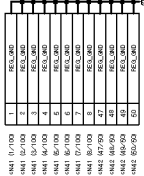
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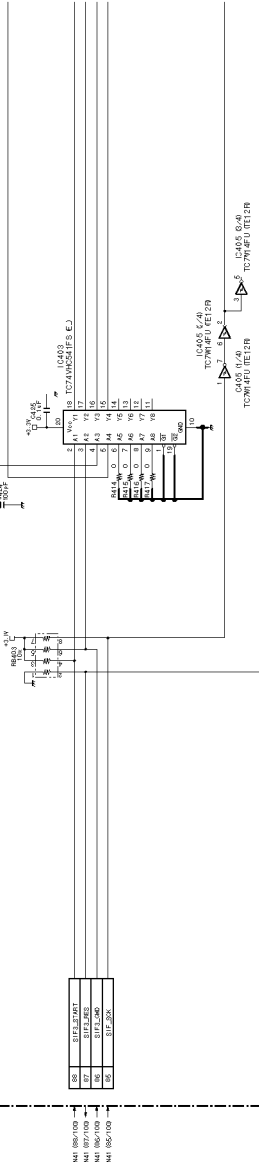
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4



5



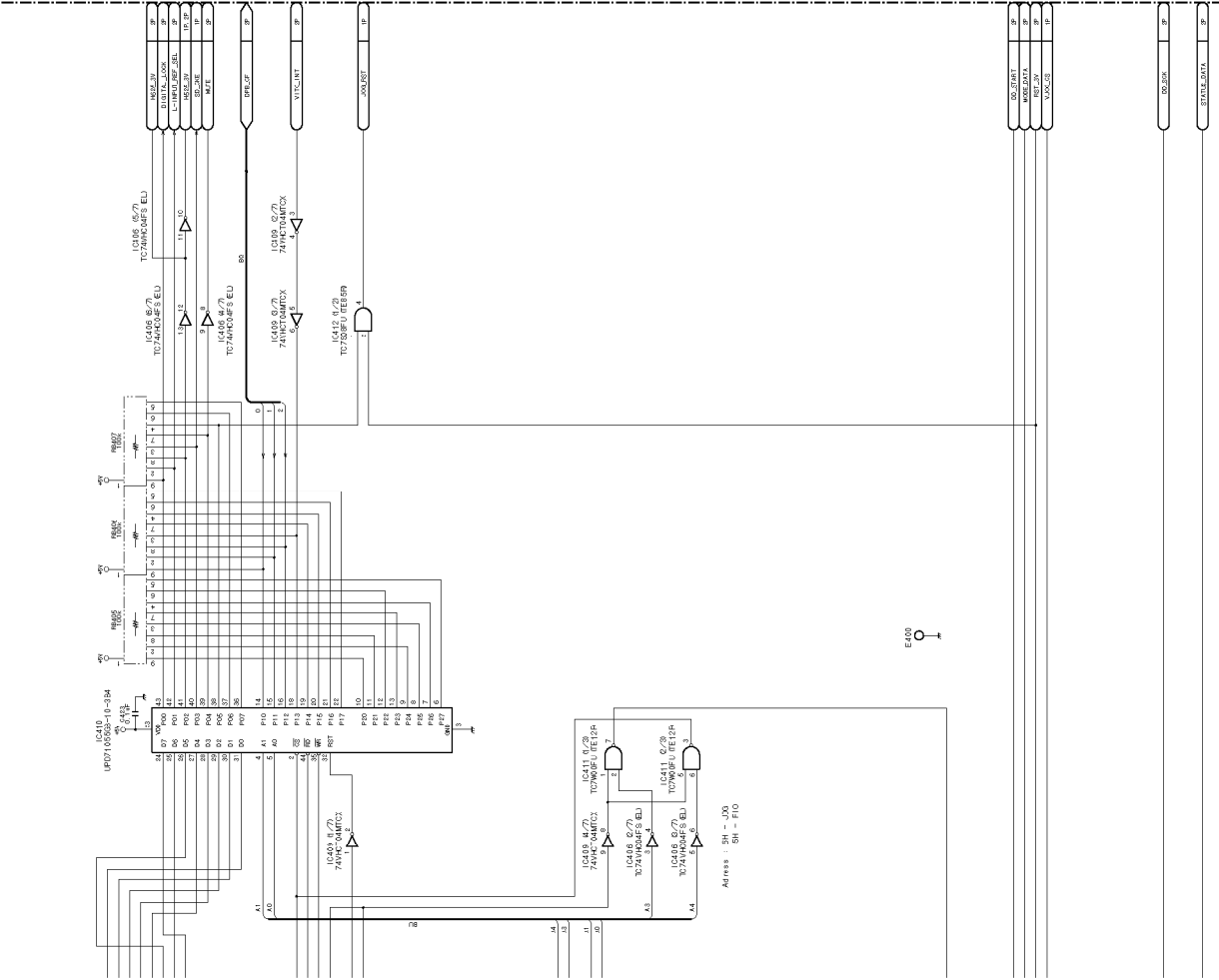
1

2

3

4

5



DNV-A28
DNV-A28P

4-147

L

K

J

I

4-147

M

L

K

J

I

O

N

M

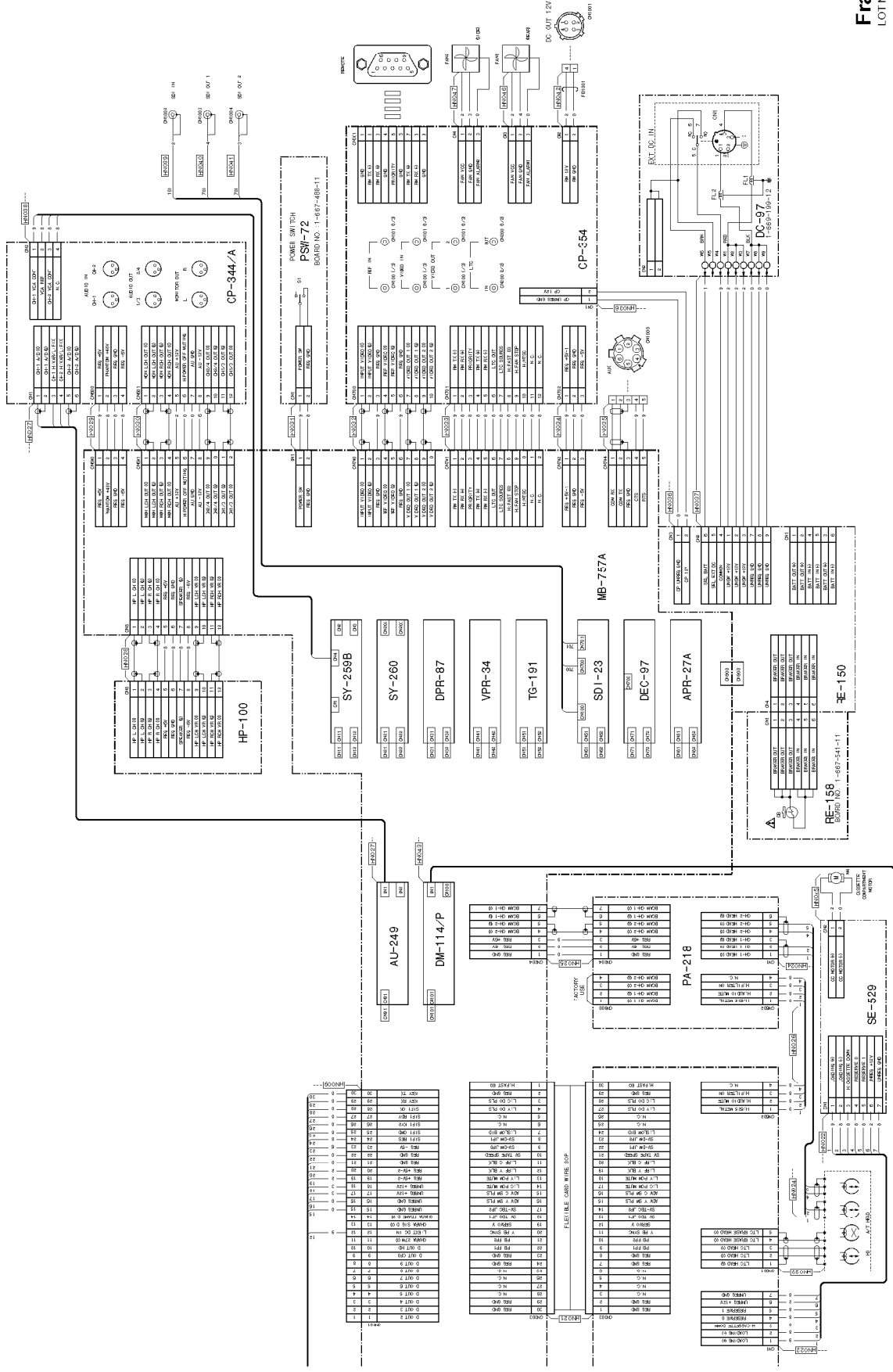
L

K

J

I

P



Frame Wiring
LOT NO. 905-

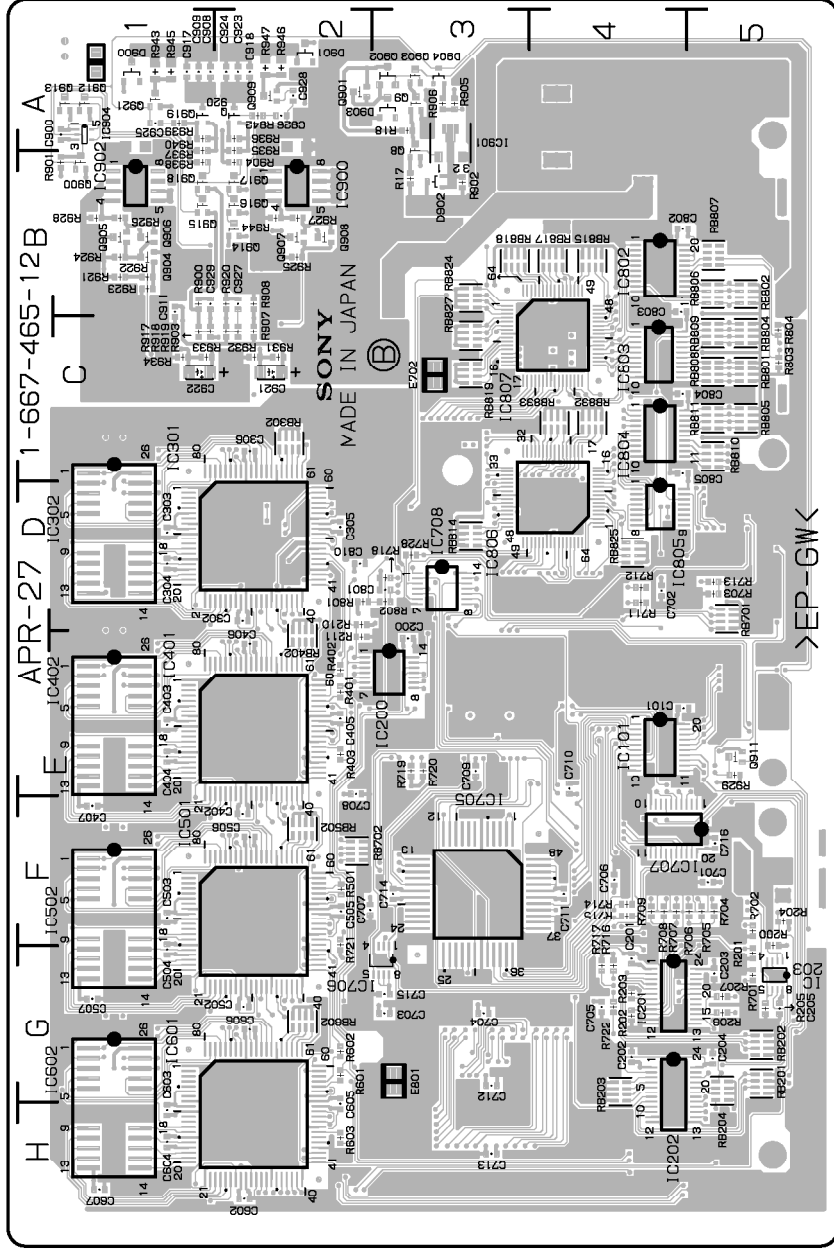
Section 5
Board Layouts

Board Layout Index

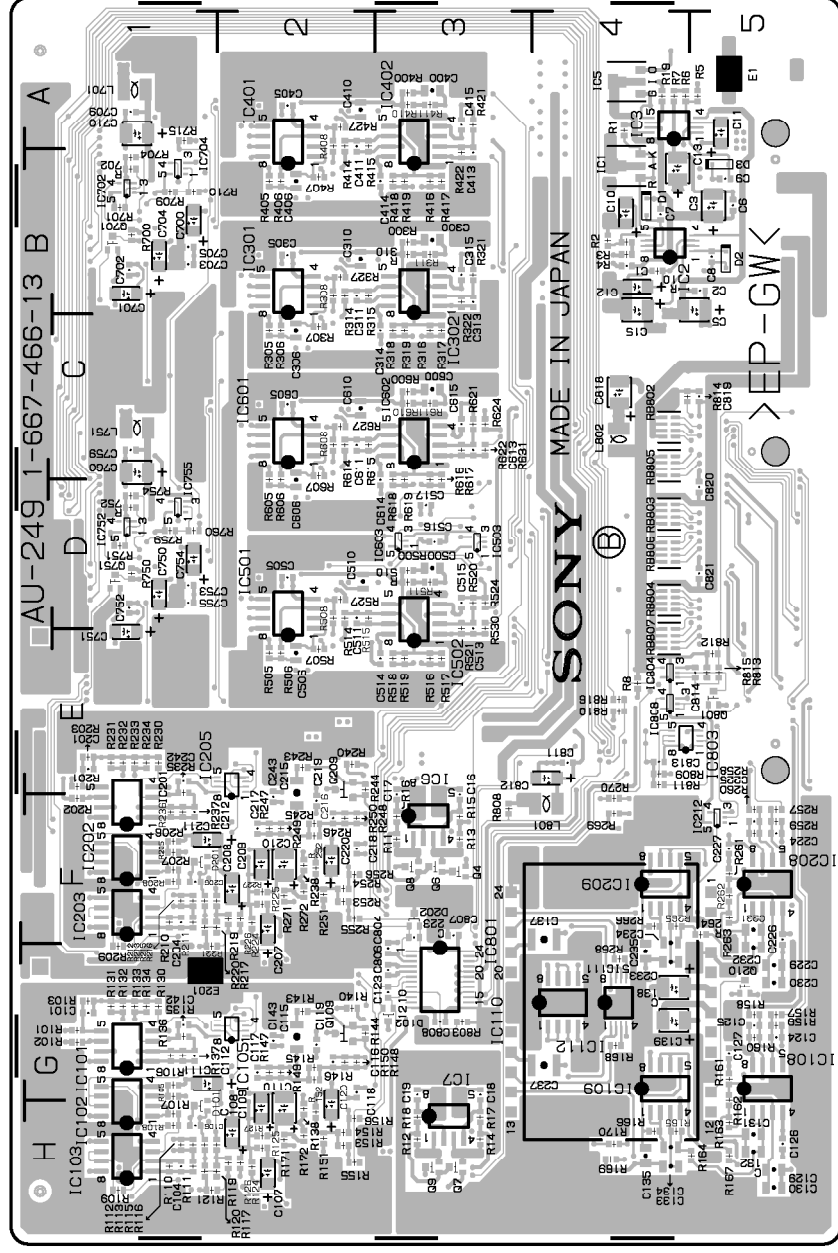
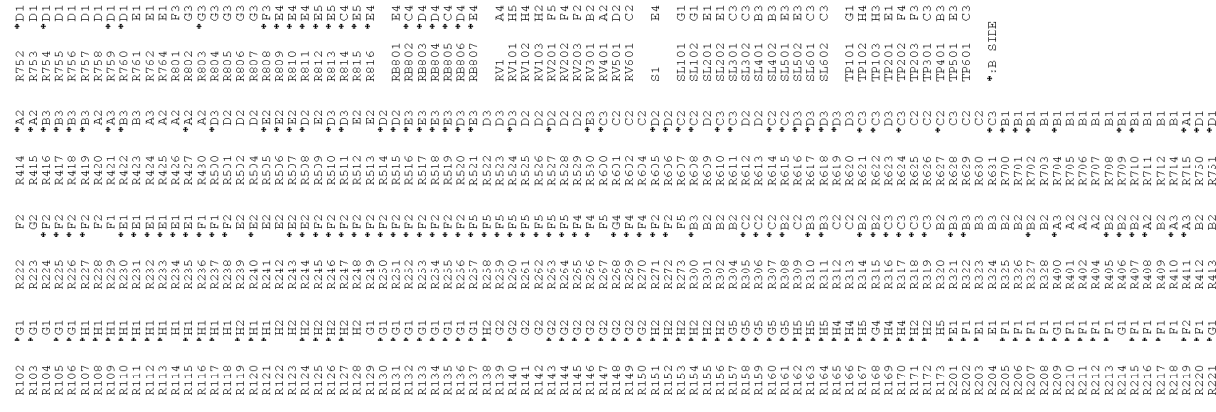
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System	Board	Circuit Function	Page
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Analog Eelacam video PE processing	DEC-97	Analog composite decoder	5-8
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Audio processing	AU-249	Audio A-D (Analog CH1/2 input), Audio D-A (Analog CH1/2 output) Audio D-A (Monitor output)	5-4
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	PSW-72	Power switch	—
	SE-529	Cassette compartment	5-27

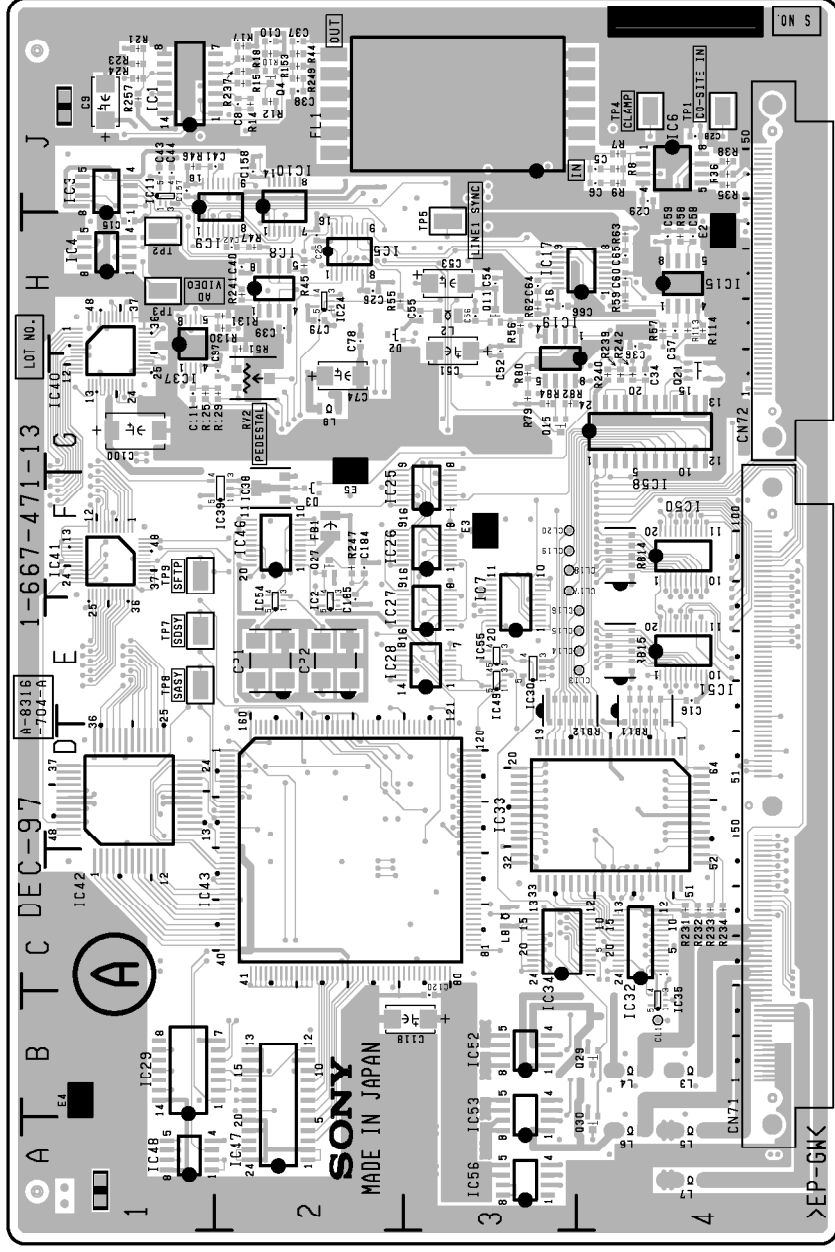
*BRR: Bit Rate Reduction **ECC: Error Correction Coding ***TBC: Time Base Corrector



APR-27A -B SIDE-
SUFFIX: -12



AU-249 -B SIDE-
SUFFIX: -13



DEC-97-A SIDE-SUFFIX: -13

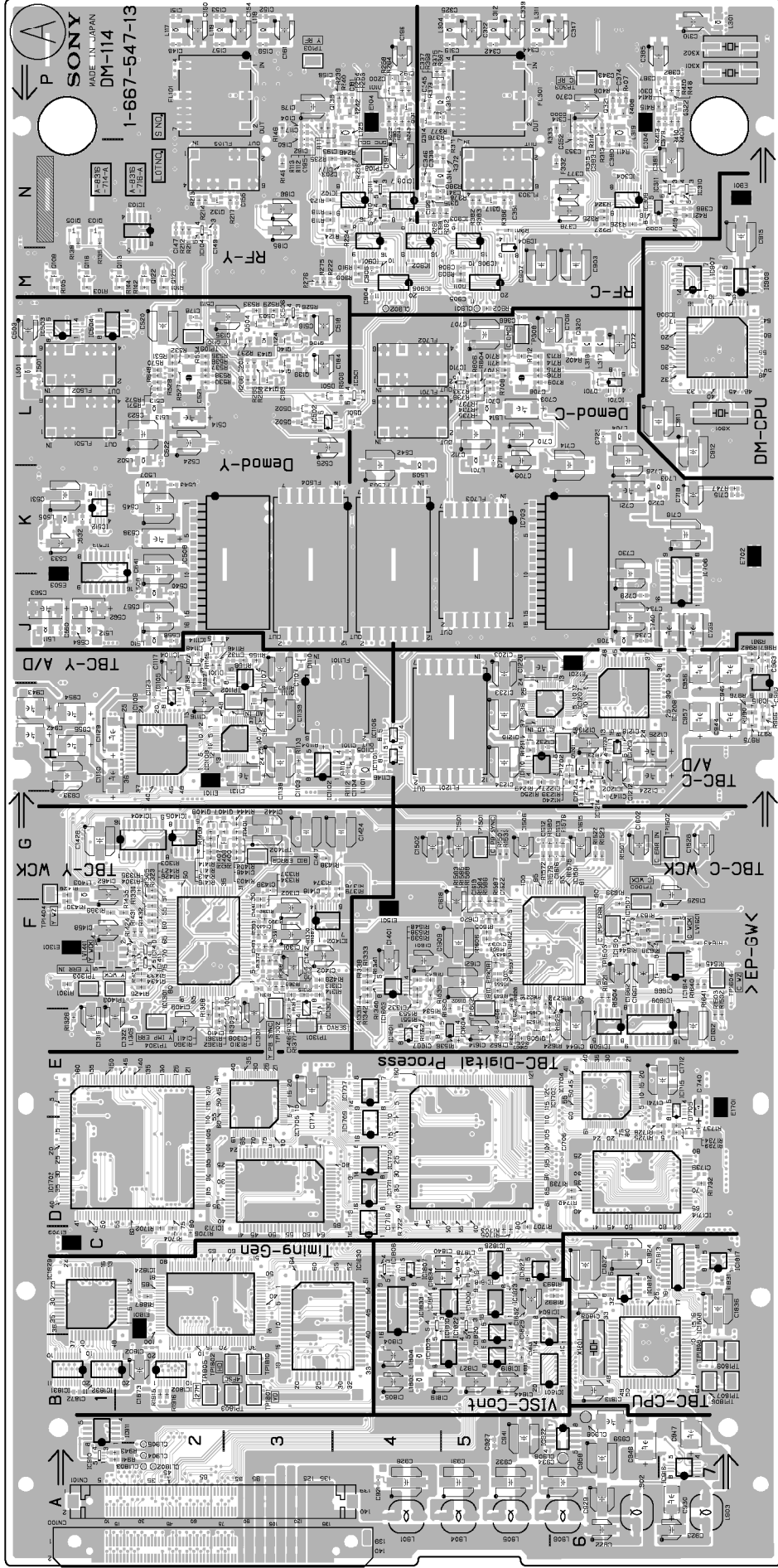
DEC-97(1-667-471-13)

C1	*H4	C93	CL13	B4	IC57	*G4
C2	*H4	C94	CL14	B4	IC58	*H4
C3	*H4	C95	CL15	B4	IC59	*C3
C4	*H4	C96	CL16	B4		
C5	*H4	C97	CL17	L1		
C6	*H4	C98	CL18	L2		
C7	*H4	C99	CL19	L3		
C8	*H4	C100	CL20	L4		
C9	*H4	C101	CL21	L5		
C10	*H4	C102	CL22	L6		
C11	*H4	C103	CL23	L7		
C12	*H4	C104	CL24	L8		
C13	*H4	C105	CL25	L9		
C14	*H4	C106	CL26	L10		
C15	*H4	C107	CL27	L11		
C16	*H4	C108	CL28	L12		
C17	*H4	C109	CL29	L13		
C18	*H4	C110	CL30	L14		
C19	*H4	C111	CL31	L15		
C20	*H4	C112	CL32	L16		
C21	*H4	C113	CL33	L17		
C22	*H4	C114	CL34	L18		
C23	*H4	C115	CL35	L19		
C24	*H4	C116	CL36	L20		
C25	*H4	C117	CL37	L21		
C26	*H4	C118	CL38	L22		
C27	*H4	C119	CL39	L23		
C28	*H4	C120	CL40	L24		
C29	*H4	C121	CL41	L25		
C30	*H4	C122	CL42	L26		
C31	*H4	C123	CL43	L27		
C32	*H4	C124	CL44	L28		
C33	*H4	C125	CL45	L29		
C34	*H4	C126	CL46	L30		
C35	*H4	C127	CL47	L31		
C36	*H4	C128	CL48	L32		
C37	*H4	C129	CL49	L33		
C38	*H4	C130	CL50	L34		
C39	*H4	C131	CL51	L35		
C40	*H4	C132	CL52	L36		
C41	*H4	C133	CL53	L37		
C42	*H4	C134	CL54	L38		
C43	*H4	C135	CL55	L39		
C44	*H4	C136	CL56	L40		
C45	*H4	C137	CL57	L41		
C46	*H4	C138	CL58	L42		
C47	*H4	C139	CL59	L43		
C48	*H4	C140	CL60	L44		
C49	*H4	C141	CL61	L45		
C50	*H4	C142	CL62	L46		
C51	*H4	C143	CL63	L47		
C52	*H4	C144	CL64	L48		
C53	*H4	C145	CL65	L49		
C54	*H4	C146	CL66	L50		
C55	*H4	C147	CL67	L51		
C56	*H4	C148	CL68	L52		
C57	*H4	C149	CL69	L53		
C58	*H4	C150	CL70	L54		
C59	*H4	C151	CL71	L55		
C60	*H4	C152	CL72	L56		
C61	*H4	C153	CL73	L57		
C62	*H4	C154	CL74	L58		
C63	*H4	C155	CL75	L59		
C64	*H4	C156	CL76	L60		
C65	*H4	C157	CL77	L61		
C66	*H4	C158	CL78	L62		
C67	*H4	C159	CL79	L63		
C68	*H4	C160	CL80	L64		
C69	*H4	C161	CL81	L65		
C70	*H4	C162	CL82	L66		
C71	*H4	C163	CL83	L67		
C72	*H4	C164	CL84	L68		
C73	*H4	C165	CL85	L69		
C74	*H4	C166	CL86	L70		
C75	*H4	C167	CL87	L71		
C76	*H4	C168	CL88	L72		
C77	*H4	C169	CL89	L73		
C78	*H4	C170	CL90	L74		
C79	*H4	C171	CL91	L75		
C80	*H4	C172	CL92	L76		
C81	*H4	C173	CL93	L77		
C82	*H4	C174	CL94	L78		
C83	*H4	C175	CL95	L79		
C84	*H4	C176	CL96	L80		
C85	*H4	C177	CL97	L81		
C86	*H4	C178	CL98	L82		
C87	*H4	C179	CL99	L83		
C88	*H4	C180	CL100	L84		
C89	*H4	C181	CL101	L85		
C90	*H4	C182	CL102	L86		
C91	*H4	C183	CL103	L87		
C92	*H4	C184	CL104	L88		
C93	*H4	C185	CL105	L89		
C94	*H4	C186	CL106	L90		
C95	*H4	C187	CL107	L91		
C96	*H4	C188	CL108	L92		
C97	*H4	C189	CL109	L93		
C98	*H4	C190	CL110	L94		
C99	*H4	C191	CL111	L95		
C100	*H4	C192	CL112	L96		

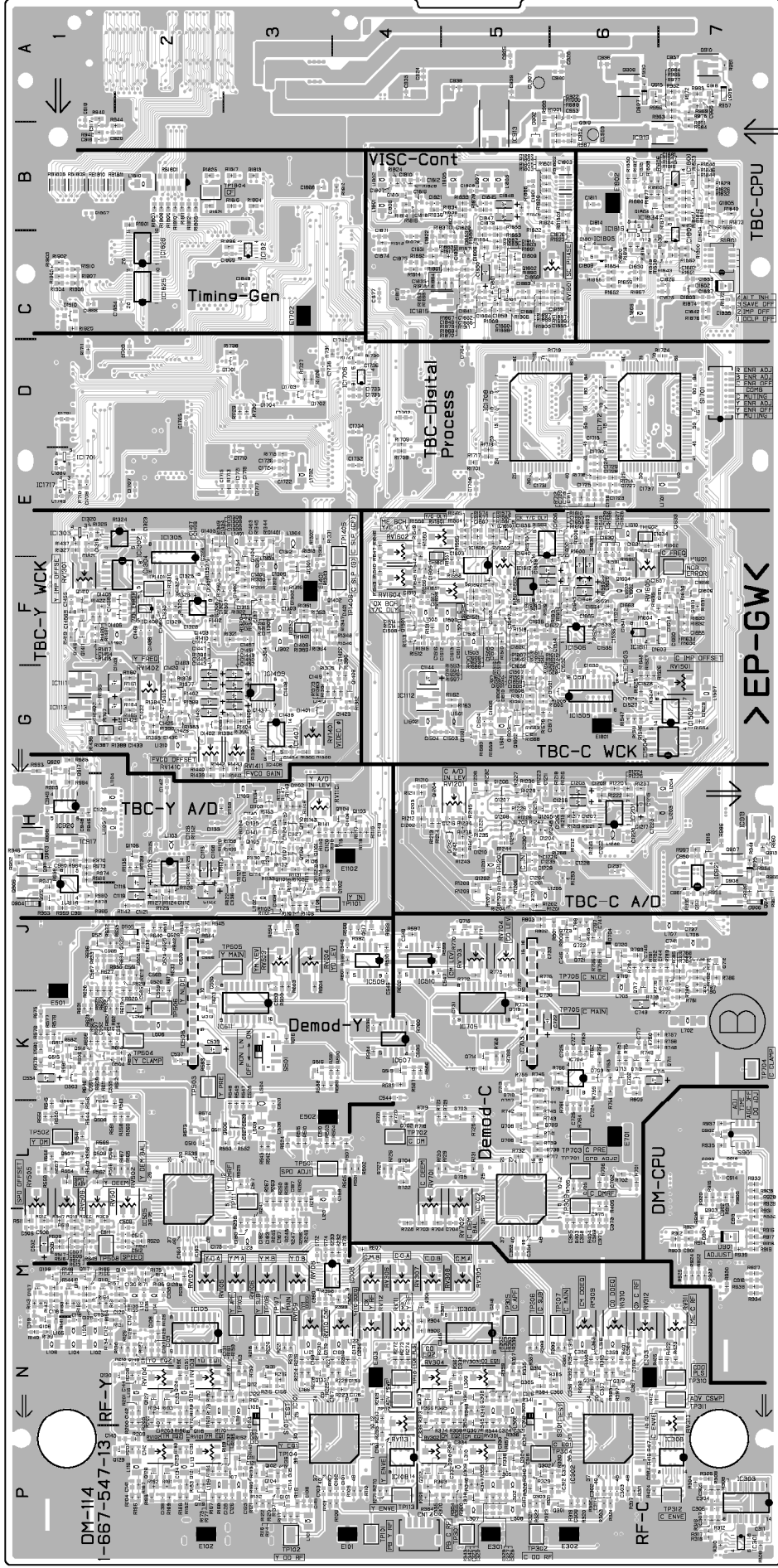
DM-114/114P (1-667-547-13)

*C101	*F4	*C194	*P4	*C384	*P6	*C717	*K6	*C962	*H7	*C1305	*P3	*C1501	*G5	*C1839	*C7	*D1402	*G2	*I5010	*J4	*L10766	*B4	*L501	*L1	*Q19	*P2	*Q71	*J6	*R14	*P3	*R206	*M2	*R322	*P5
*C101	*F3	*C195	*P4	*C385	*N7	*C719	*K7	*C964	*A7	*C1307	*E3	*C1502	*G8	*C1840	*C5	*D1406	*G2	*I511	*J7	*L10767	*B5	*L502	*L3	*Q21	*P2	*Q72	*J6	*R15	*P3	*R207	*M2	*R323	*N6
*C104	*F3	*C197	*L3	*C388	*N6	*C720	*K7	*C965	*H4	*C1308	*G4	*C1504	*G5	*C1841	*C7	*D1501	*G6	*I512	*K2	*L10769	*D4	*L504	*L3	*Q22	*P2	*Q90	*M4	*R17	*N3	*R209	*N2	*R325	*N6
*C106	*F3	*C199	*N4	*C389	*N6	*C721	*K6	*C1101	*H4	*C1309	*P3	*C1505	*G5	*C1842	*C5	*D1502	*G5	*I513	*L6	*L10770	*D5	*L505	*K2	*Q23	*P2	*Q91	*M7	*R18	*N3	*R210	*N2	*R326	*N6
*C108	*F3	*C201	*L3	*C390	*N6	*C722	*K5	*C1102	*H4	*C1310	*P3	*C1506	*G5	*C1843	*B5	*D1503	*G6	*I514	*L5	*L10771	*D4	*L506	*K2	*Q24	*P2	*Q92	*M7	*R19	*N3	*R211	*N2	*R327	*N6
*C109	*N2	*C201	*L3	*C391	*M1	*C723	*L6	*C1103	*H4	*C1311	*P3	*C1507	*P2	*C1844	*B5	*D1504	*G6	*I515	*L6	*L10772	*D5	*L507	*K2	*Q25	*P2	*Q93	*M7	*R20	*N3	*R212	*N2	*R328	*P5
*C109	*N2	*C202	*N4	*C392	*M1	*C724	*L6	*C1104	*H4	*C1312	*P3	*C1508	*P5	*C1845	*B5	*D1505	*G6	*I516	*L6	*L10773	*D6	*L508	*K2	*Q26	*P2	*Q94	*M7	*R21	*N3	*R213	*N2	*R329	*P5
*C110	*N2	*C203	*N4	*C393	*M1	*C725	*K6	*C1105	*H4	*C1313	*P3	*C1509	*P5	*C1846	*B5	*D1506	*G6	*I517	*L6	*L10774	*D6	*L509	*K2	*Q27	*P2	*Q95	*M7	*R22	*N3	*R214	*N2	*R330	*P6
*C111	*N2	*C301	*P6	*C505	*M1	*C726	*L6	*C1106	*H4	*C1314	*P3	*C1510	*P5	*C1847	*B5	*D1701	*G3	*I518	*L6	*L10775	*D7	*L510	*J2	*Q28	*P2	*Q96	*M7	*R23	*N3	*R215	*N3	*R331	*P6
*C111	*N2	*C302	*P6	*C506	*M1	*C727	*K6	*C1107	*H4	*C1315	*P3	*C1511	*P5	*C1848	*B5	*D1702	*G3	*I519	*L6	*L10776	*D7	*L511	*J1	*Q29	*P2	*Q97	*M7	*R24	*N3	*R216	*N3	*R332	*N6
*C111	*N2	*C303	*P6	*C507	*M1	*C728	*K6	*C1108	*H4	*C1316	*P3	*C1512	*P5	*C1849	*B5	*D1703	*G3	*I520	*L6	*L10777	*D8	*L512	*J1	*Q30	*P2	*Q98	*M7	*R25	*N3	*R217	*N3	*R333	*N6
*C111	*N2	*C304	*P7	*C508	*M2	*C729	*K6	*C1109	*H4	*C1317	*P3	*C1513	*P5	*C1850	*B5	*D1704	*G3	*I521	*L6	*L10778	*D9	*L513	*J1	*Q31	*P2	*Q99	*M7	*R26	*N3	*R218	*N3	*R334	*N6
*C111	*N2	*C305	*P7	*C509	*M2	*C730	*K6	*C1110	*H4	*C1318	*P4	*C1514	*P4	*C1851	*C5	*D1705	*G3	*I522	*L6	*L10779	*D9	*L514	*L5	*Q32	*N2	*Q1	*H1	*R27	*N3	*R219	*N3	*R335	*N5
*C111	*N2	*C306	*P7	*C510	*M2	*C731	*K5	*C1111	*H3	*C1319	*E1	*C1515	*P4	*C1852	*C5	*D1801	*G6	*I523	*L6	*L10780	*D9	*L515	*L5	*Q33	*N4	*Q12	*J1	*R28	*N3	*R220	*N3	*R336	*P5
*C111	*N2	*C307	*P7	*C511	*M1	*C732	*J5	*C1112	*H2	*C1320	*E1	*C1516	*P4	*C1853	*C5	*D1802	*G7	*I524	*L6	*L10781	*D9	*L516	*K7	*Q34	*N4	*Q13	*H7	*R29	*N3	*R221	*N3	*R337	*N5
*C111	*N2	*C308	*P7	*C512	*M2	*C733	*J5	*C1113	*H2	*C1321	*E1	*C1517	*P4	*C1854	*C5	*D1803	*G7	*I525	*L6	*L10782	*D9	*L517	*K7	*Q35	*N4	*Q14	*H7	*R30	*N3	*R222	*N3	*R338	*P5
*C111	*N2	*C309	*P6	*C513	*M2	*C734	*J5	*C1114	*H2	*C1322	*E1	*C1518	*P5	*C1855	*C5	*D1804	*G5	*I526	*L6	*L10783	*D9	*L518	*K7	*Q36	*P4	*Q15	*H7	*R31	*N3	*R223	*N3	*R339	*P5
*C111	*N2	*C310	*P6	*C514	*M2	*C735	*J6	*C1115	*H3	*C1323	*E2	*C1519	*P5	*C1856	*C5	*D1805	*G5	*I527	*L6	*L10784	*D9	*L519	*K7	*Q37	*P4	*Q16	*H7	*R32	*N3	*R224	*N3	*R340	*P5
*C112	*M2	*C310	*P7	*C515	*M2	*C736	*J5	*C1116	*H2	*C1324	*E2	*C1520	*P5	*C1857	*C6	*D1806	*G5	*I528	*L6	*L10785	*D9	*L520	*K7	*Q38	*P4	*Q17	*G1	*R33	*N3	*R225	*N3	*R341	*N5
*C112	*M2	*C311	*P7	*C516	*M3	*C737	*J7	*C1117	*H2	*C1325	*E2	*C1521	*P5	*C1858	*C5	*D1810	*G5	*I529	*L6	*L10786	*D9	*L521	*K7	*Q39	*L3	*Q18	*H7	*R34	*N3	*R226	*N3	*R342	*P5
*C112	*M2	*C312	*P6	*C517	*L3	*C738	*J7	*C1118	*H2	*C1326	*E2	*C1522	*P5	*C1859	*C6	*D1809	*G5	*I530	*L6	*L10787	*D9	*L522	*K7	*Q40	*M3	*Q19	*H7	*R35	*N3	*R227	*N3	*R343	*P5
*C112	*M2	*C313	*P6	*C518	*L3	*C739	*J7	*C1119	*H2	*C1327	*E2	*C1523	*P5	*C1860	*C6	*D1810	*G5	*I531	*L6	*L10788	*D9	*L523	*K7	*Q41	*M3	*Q20	*H7	*R36	*N3	*R228	*M3	*R344	*P5
*C112	*M2	*C314	*P6	*C519	*M3	*C740	*J7	*C1120	*H2	*C1328	*E2	*C1524	*G5	*C1861	*C5	*D1811	*G5	*I532	*L6	*L10789	*D9	*L524	*K7	*Q42	*M3	*Q21	*H7	*R37	*N3	*R229	*M3	*R345	*P5
*C112	*M2	*C315	*P5	*C520	*M2	*C741	*J7	*C1121	*H2	*C1329	*E2	*C1525	*G7	*C1862	*C5	*E101	*P4	*I533	*L6	*L10790	*D9	*L525	*K7	*Q43	*L3	*Q22	*B6	*R38	*N1	*R230	*M3	*R346	*P5
*C112	*M2	*C316	*N5	*C521	*L2	*C742	*K7	*C1122	*H2	*C1330	*E2	*C1526	*G6	*C1863	*C5	*E103	*N4	*I534	*L6	*L10791	*D9	*L526	*K7	*Q44	*L3	*Q23	*B6	*R39	*N1	*R231	*M3	*R347	*P5
*C112	*M2	*C317	*N5	*C522	*L2	*C743	*K6	*C1123	*H2	*C1331	*E2	*C1527	*G6	*C1864	*C5	*E104	*N4	*I535	*L6	*L10792	*D9	*L527	*K7	*Q45	*L3	*Q24	*B6	*R40	*N1	*R232	*M4	*R348	*N5
*C112	*M2	*C318	*N5	*C523	*L2	*C744	*K7	*C1124	*H3	*C1332	*E2	*C1528	*G7	*C1865	*C5	*E105	*N5	*I536	*L6	*L10793	*D9	*L528	*K7	*Q46	*L3	*Q25	*B6	*R41	*N1	*R233	*M3	*R349	*N5
*C112	*M2	*C319	*N5	*C524	*L2	*C745	*K7	*C1125	*H3	*C1333	*E2	*C1529	*G7	*C1866	*C5	*E106	*N5	*I537	*L6	*L10794	*D9	*L529	*K7	*Q47	*L3	*Q26	*B6	*R42	*N1	*R234	*M3	*R350	*N5
*C112	*M2	*C320	*P5	*C525	*L3	*C746	*J6	*C1126	*H1	*C1334	*E2	*C1530	*G6	*C1867	*B1	*E303	*N6	*I538	*L6	*L10795	*D9	*L530	*K7	*Q48	*L3	*Q27	*B6	*R43	*N1	*R235	*M3	*R351	*N5
*C113	*N2	*C321	*N5	*C526	*L3	*C747	*J6	*C1127	*H3	*C1335	*G1	*C1531	*G6	*C1868	*B5	*E304	*N7	*I539	*L6	*L10796	*D9	*L531	*K7	*Q49	*L3	*Q28	*B6	*R44	*N1	*R236	*M4	*R352	*N5
*C113	*N2	*C322	*P5	*C527	*L3	*C748	*M7	*C1128	*H2	*C1336	*E2	*C1532	*G6	*C1869	*C3	*E501	*J1	*I540	*L6	*L10797	*D9	*L532	*K7	*Q50	*L3	*Q29	*B6	*R45	*N1	*R237	*M3	*R353	*N5
*C113	*N2	*C323	*P5	*C528	*L3	*C749	*M7	*C1129	*H1	*C1337	*E2	*C1533	*G6	*C1870	*C4	*E502	*J1	*I541	*L6	*L10798	*D9	*L533	*K7	*Q51	*L3	*Q30	*B6	*R46	*N1	*R238	*M3	*R354	*P5
*C113	*N2	*C324	*P5	*C529	*L3	*C750	*M6	*C1130	*H1	*C1338	*E2	*C1534	*G6	*C1871	*B7	*E503	*J1	*I542	*L6	*L10799	*D9	*L534	*K7	*Q52	*L3	*Q31	*B6	*R47	*N1	*R239	*M4	*R355	*N4
*C113	*N2	*C325	*P5	*C530	*L3	*C751	*M6	*C1131	*H1	*C1339	*E2	*C1535	*G6	*C1872	*B4	*E504	*J1	*I543	*L6	*L10800	*D9	*L535	*K7	*Q53	*L3	*Q32	*B6	*R48	*N1	*R240	*P4	*R356	*P5
*C113	*N2	*C326	*P5	*C531	*K1	*C905	*M5	*C1132	*H2	*C1340	*E2	*C1536	*P6	*C1873	*C5	*E502	*K7	*I544	*L6	*L10801	*D9	*L536	*K7	*Q54	*L3	*Q33	*B6	*R49	*N1	*R241	*M3	*R357	*P5
*C113	*N2	*C327	*P5	*C532	*L2	*C906	*M5	*C1133	*H2	*C1341	*E2	*C1537	*P6	*C1874	*C4	*E501	*N7	*I545	*L6	*L10802	*D9	*L537	*K7	*Q55	*L3	*Q34	*B6	*R50	*N1	*R242	*P4	*R358	*P5
*C113	*N2	*C328	*P5	*C533	*K1	*C907	*M5	*C1134	*H3	*C1342	*E2	*C1538	*G6	*C1875	*C4	*E101	*N7	*I546	*L6	*L10803	*D9	*L538	*K7	*Q56	*L3	*Q35	*B6	*R51	*N1	*R243	*P4	*R359	*N5
*C113	*N2	*C329	*P5	*C534	*K1	*C908	*M5	*C1135	*H3	*C1343	*E2	*C1539	*G6	*C1876	*B6	*E102	*N7	*I547	*L6	*L10804	*D9	*L539	*K7	*Q57	*L3	*Q36	*B6	*R52	*N1	*R244	*P4	*R360	*P5
*C113	*N2	*C330	*P5	*C535	*K4	*C909	*M7	*C1136	*H3	*C1344	*E2	*C1540	*G6	*C1877	*C5	*E103	*N7	*I548	*L6	*L10805	*D9	*L540	*K7	*Q58	*L3	*Q37	*B6	*R53	*N1	*R245	*P4	*R361	*P5
*C113	*N2	*C331	*N5	*C536	*K4	*C910	*L7	*C1137	*H3	*C1345	*G3	*C1541	*G5	*C1878	*C5	*E104	*N7	*I549	*L6	*L10806	*D9	*L541	*K7	*Q59	*L3	*Q38	*B6	*R54	*N1	*R246	*M4	*R362	*N5
*C113	*N2	*C332	*P5	*C537	*K4	*C911	*L6	*C1138	*H3	*C1346	*G3	*C1542	*G5	*C1879	*B5	*E105	*N7	*I550	*L6	*L10807	*D9	*L542	*K7	*Q60	*L3	*Q39	*B6	*R55	*N1	*R247	*M4	*R363	*P4
*C113	*N2	*C333	*N5	*C538	*K2	*C912	*M7	*C1139	*H3	*C1347	*E2	*C1543	*G5	*C1880	*E1	*E106	*N7	*I551	*L6	*L10808	*D9	*L543	*K7	*Q61	*L3	*Q40	*B6	*R56	*N1	*R248	*M3	*R364	*P4
*C113	*N2	*C334	*N5	*C539	*K2	*C913	*M7	*C1140	*H3	*C1348	*E2	*C1544	*G5	*C1881	*B7	*E107	*N7	*I552	*L6	*L10809	*D9	*L544	*K7	*Q62	*L3	*Q41	*B6	*R57	*N1	*R249	*M3	*R365	*N4
*C113	*N2	*C335	*N5	*C540	*K2	*C914	*M7	*C1141	*H3	*C1349	*E2	*C1545	*G5	*C1882	*C7	*E108	*N7	*I553	*L6	*L10810	*D9	*L545	*K7	*Q63	*L3	*Q42	*B6						

R414	*K1	R734	*I4	R910	M4	R102	*J3	R1297	*H5	R1366	*G3	R1515	*F4	R1697	*S5	R1910	*B2	R1902	*C1	TH1402 *C1
R415	*K2	R735	*I5	R911	M7	R103	*H3	R1228	*H5	R1367	*F3	R1516	*F5	R1698	*S6	R1911	*B2	R1903	*C1	TH1402 *C1
R416	*P6	R736	*L4	R912	M7	R104	H3	R1229	*H5	R1368	F3	R1517	*F5	R1699	*S6	R1912	B2	R1904	*C1	TH1602 *E6
R417	*P6	R737	*L4	R913	L7	R105	*J3	R1230	*H5	R1369	F3	R1518	*F5	R1700	*G6	R1913	B3	R1905	*C5	
R418	*K4	R738	*M4	R914	M7	R106	*J3	R1231	H6	R1370	F3	R1519	*F6	R1701	*G6	R1914	B4	R1906	*C5	TP101 *F4
R419	*K4	R739	*L5	R915	L7	R107	*J3	R1232	*H5	R1371	F3	R1520	*F5	R1702	*G6	R1915	B3	R1907	*C1	TP102 *F3
R420	*K4	R740	*L5	R916	M7	R108	*J3	R1233	*H6	R1372	G4	R1521	*G6	R1703	*G6	R1916	B4	R1908	*C1	TP103 *F3
R421	N7	R741	*L5	R917	M7	R109	*J3	R1234	*H6	R1373	G4	R1522	*G6	R1704	*G6	R1917	B3	R1909	*C5	TP104 *F3
R422	N7	R742	*L5	R918	M7	R110	H4	R1235	*H5	R1374	G3	R1523	*G6	R1705	*G6	R1918	B4	R1910	*C1	TP105 *N3
R423	N7	R743	*L5	R919	M7	R111	*J3	R1236	*H6	R1375	G3	R1524	*G6	R1706	*G6	R1919	C6	R1911	*C5	TP106 *N3
R424	P6	R744	*L5	R920	L7	R112	H4	R1237	*H5	R1376	G2	R1525	*G6	R1707	*G6	R1920	C6	R1912	*B4	TP107 *N3
R425	*K4	R745	*L5	R921	M7	R113	*J3	R1238	*H6	R1377	G2	R1526	*G6	R1708	*G6	R1921	C6	R1913	*C5	TP108 *M4
R426	*K4	R746	*L5	R922	M7	R114	H4	R1239	*H6	R1378	G4	R1527	*G6	R1709	*G6	R1922	C6	R1914	*C5	TP109 *M4
R427	*K4	R747	*L5	R923	M7	R115	*H4	R1240	*H5	R1379	G4	R1528	*F6	R1710	*G6	R1923	B7	R1915	B2	TP110 *N4
R428	*L3	R748	*L5	R924	M7	R116	H4	R1241	*H5	R1380	G4	R1529	*F6	R1711	*G6	R1924	B4	R1916	B2	TP111 *L3
R429	*L4	R749	*L5	R925	M7	R117	H4	R1242	*H5	R1381	G3	R1530	*F6	R1712	*G6	R1925	B2	R1917	*C5	TP112 *N4
R430	*L4	R750	*L5	R926	M7	R118	H4	R1243	*H5	R1382	G4	R1531	*F6	R1713	*G6	R1926	B4	R1918	*C5	TP113 *F4
R431	*L4	R751	*L5	R927	M7	R119	H4	R1244	*H5	R1383	G4	R1532	*F6	R1714	*G6	R1927	B4	R1919	*C5	TP114 *F4
R432	*L4	R752	*L5	R928	M7	R120	H3	R1245	*H6	R1384	G2	R1533	*G6	R1715	*G6	R1928	B4	R1920	*B5	TP101 *P5
R433	*L4	R753	*L5	R929	M7	R121	H3	R1246	*H6	R1385	G2	R1534	*E4	R1716	*G6	R1929	B7	R1921	*B6	TP301 *P5
R434	*L4	R754	*L5	R930	M7	R122	H3	R1247	*H5	R1386	G2	R1535	*F4	R1717	*G6	R1930	B6	R1922	*B6	TP302 *P5
R435	*L4	R755	*L5	R931	M7	R123	H3	R1248	*H5	R1387	G2	R1536	*F4	R1718	*G6	R1931	B6	R1923	*B6	TP303 *P6
R436	*L4	R756	*L5	R932	M7	R124	H3	R1249	*H5	R1388	G2	R1537	*F4	R1719	*G6	R1932	B6	R1924	*B5	TP304 *P5
R437	*L4	R757	*L5	R933	M7	R125	H3	R1250	*H5	R1389	G2	R1538	*F4	R1720	*G6	R1933	C7	R1925	*C1	TP305 *N5
R438	*L4	R758	*L5	R934	M7	R126	H2	R1251	*H6	R1390	F3	R1539	*F4	R1721	*G6	R1934	B5	R1926	*B5	TP306 *N6
R439	*L4	R759	*L5	R935	M7	R127	H2	R1252	*H6	R1391	F3	R1540	*F4	R1722	*G6	R1935	B5	R1927	*B5	TP307 *N6
R440	*L4	R760	*L5	R936	M7	R128	H2	R1253	*H6	R1392	F3	R1541	*G6	R1723	*G6	R1936	B4	R1928	*B6	TP308 *M5
R441	*L4	R761	*L5	R937	M7	R129	H2	R1254	*H6	R1393	F3	R1542	*F4	R1724	*G6	R1937	B4	R1929	*B6	TP309 *L6
R442	*L4	R762	*L5	R938	M7	R130	H2	R1255	*H6	R1394	F3	R1543	*F4	R1725	*G6	R1938	B4	R1930	*B6	TP310 *N7
R443	*L4	R763	*L5	R939	M7	R131	H3	R1256	*H6	R1395	G3	R1544	*F4	R1726	*G6	R1939	B4	R1931	*B6	TP311 *N7
R444	*L4	R764	*L5	R940	M7	R132	H3	R1257	*H6	R1396	G3	R1545	*F4	R1727	*G6	R1940	B4	R1932	*B6	TP312 *N7
R445	*L4	R765	*L5	R941	M7	R133	H3	R1258	*H6	R1397	G3	R1546	*F4	R1728	*G6	R1941	B4	R1933	*C6	RE1101 *B1
R446	*L4	R766	*L5	R942	M7	R134	H3	R1259	*H6	R1398	G2	R1547	*G6	R1729	*G6	R1942	B4	R1934	*C6	RE1101 *B1
R447	*L4	R767	*L5	R943	M7	R135	H3	R1260	*H6	R1399	G2	R1548	*F4	R1730	*G6	R1943	B4	R1935	*C6	RE1101 *B1
R448	*L4	R768	*L5	R944	M7	R136	H3	R1261	*H6	R1400	G3	R1549	*F4	R1731	*G6	R1944	B4	R1936	*C6	RE1101 *B1
R449	*L4	R769	*L5	R945	M7	R137	H2	R1262	*H6	R1401	G3	R1550	*F4	R1732	*G6	R1945	B4	R1937	*C6	RE1101 *B1
R450	*L4	R770	*L5	R946	M7	R138	H2	R1263	*H6	R1402	G2	R1551	*E4	R1733	*G6	R1946	B4	R1938	*C6	RE1101 *B1
R451	*L4	R771	*L5	R947	M7	R139	H2	R1264	*H6	R1403	G2	R1552	*E4	R1734	*G6	R1947	B4	R1939	*C6	RE1101 *B1
R452	*L4	R772	*L5	R948	M7	R140	H3	R1265	*H6	R1404	G3	R1553	*F4	R1735	*G6	R1948	B4	R1940	*C6	RE1101 *B1
R453	*L4	R773	*L5	R949	M7	R141	H3	R1266	*H6	R1405	G3	R1554	*F4	R1736	*G6	R1949	B4	R1941	*C6	RE1101 *B1
R454	*L4	R774	*L5	R950	M7	R142	H2	R1267	*H6	R1406	G3	R1555	*F5	R1737	*G6	R1950	B4	R1942	*C6	RE1101 *B1
R455	*L4	R775	*L5	R951	M7	R143	H3	R1268	*H6	R1407	G3	R1556	*F5	R1738	*G6	R1951	B4	R1943	*C6	RE1101 *B1
R456	*L4	R776	*L5	R952	M7	R144	H3	R1269	*H6	R1408	G3	R1557	*F5	R1739	*G6	R1952	B4	R1944	*C6	RE1101 *B1
R457	*L4	R777	*L5	R953	M7	R145	H3	R1270	*H6	R1409	G2	R1558	*F5	R1740	*G6	R1953	B4	R1945	*C6	RE1101 *B1
R458	*L4	R778	*L5	R954	M7	R146	H3	R1271	*H6	R1410	G2	R1559	*F5	R1741	*G6	R1954	B4	R1946	*C6	RE1101 *B1
R459	*L4	R779	*L5	R955	M7	R147	H3	R1272	*H6	R1411	G2	R1560	*F5	R1742	*G6	R1955	B4	R1947	*C6	RE1101 *B1
R460	*L4	R780	*L5	R956	M7	R148	H3	R1273	*H6	R1412	G2	R1561	*F5	R1743	*G6	R1956	B4	R1948	*C6	RE1101 *B1
R461	*L4	R781	*L5	R957	M7	R149	H3	R1274	*H6	R1413	G2	R1562	*F5	R1744	*G6	R1957	B4	R1949	*C6	RE1101 *B1
R462	*L4	R782	*L5	R958	M7	R150	H3	R1275	*H6	R1414	G2	R1563	*F5	R1745	*G6	R1958	B4	R1950	*C6	RE1101 *B1
R463	*L4	R783	*L5	R959	M7	R151	H3	R1276	*H6	R1415	G2	R1564	*F5	R1746	*G6	R1959	B4	R1951	*C6	RE1101 *B1
R464	*L4	R784	*L5	R960	M7	R152	H3	R1277	*H6	R1416	G2	R1565	*F5	R1747	*G6	R1960	B4	R1952	*C6	RE1101 *B1
R465	*L4	R785	*L5	R961	M7	R153	H3	R1278	*H6	R1417	G2	R1566	*F5	R1748	*G6	R1961	B4	R1953	*C6	RE1101 *B1
R466	*L4	R786	*L5	R962	M7	R154	H3	R1279	*H6	R1418	G2	R1567	*F5	R1749	*G6	R1962	B4	R1954	*C6	RE1101 *B1
R467	*L4	R787	*L5	R963	M7	R155	H3	R1280	*H6	R1419	G2	R1568	*F5	R1750	*G6	R1963	B4	R1955	*C6	RE1101 *B1
R468	*L4	R788	*L5	R964	M7	R156	H3	R1281	*H6	R1420	F1	R1569	*F5	R1751	*G6	R1964	B4	R1956	*C6	RE1101 *B1
R469	*L4	R789	*L5	R965	M7	R157	H3	R1282	*H6	R1421	F1	R1570	*F5	R1752	*G6	R1965	B4	R1957	*C6	RE1101 *B1
R470	*L4	R790	*L5	R966	M7	R158	H3	R1283	*H6	R1422	F1	R1571	*F5	R1753	*G6	R1966	B4	R1958	*C6	RE1101 *B1
R471	*L4	R791	*L5	R967	M7	R159	H2	R1284	*H6	R1423	G2	R1572	*G5	R1754	*G6	R1967	B4	R1959	*C6	RE1101 *B1
R472	*L4	R792	*L5	R968	M7	R160	H2	R1285	*H6	R1424	F2	R1573	*G5	R1755	*G6	R1968	B4	R1960	*C6	RE1101 *B1
R473	*L4	R793	*L5	R969	M7	R161	H2	R1286	*H6	R1425	F2	R1574	*F5	R1756	*G6	R1969	B4	R1961	*C6	RE1101 *B1
R474	*L4	R794	*L5	R970	M7	R162	H2	R1287	*H6	R1426	F2	R1575	*F5	R1757	*G6	R1970	B4	R1962	*C6	RE1101 *B1
R475	*L4	R795	*L5	R971	M7	R163	H2	R1288	*H6	R1427	F2	R1576	*F5	R1758	*G6	R1971	B4	R1963	*C6	RE1101 *B1
R476	*L4	R796	*L5	R972	M7	R164	H2	R1289	*H6	R1428	F2	R1577	*F5	R1759	*G6	R1972	B4	R1964	*C6	RE1101 *B1
R477	*L4	R797	*L5	R973	M7	R165	H2	R1290	*H6	R1429	F2	R1578	*F5	R1760	*G6	R1973	B4	R1965	*C6	RE1101 *B1
R478	*L4	R798	*L5	R974	M7	R166	H2	R1291	*H6	R1430	F1	R1579	*F5	R1761	*G6	R1974	B4	R1966	*C6	RE1101 *B1
R479	*L4	R799	*L5	R975	M7	R167	H2	R1292	*H6	R1431	F2	R1580	*F5	R1762	*G6	R1975	B4	R1967	*C6	RE1101 *B1
R480	*L4	R800	*L5	R976	M7	R168	H2	R1293	*H6	R1432	F2	R1581	*F5	R1763	*G6	R1976	B4	R1968	*C6	RE1101 *B1
R481	*L4	R801	*L5	R977	M7	R169	H2	R1294	*H6	R1433	F2	R1582	*F5	R1764	*G6	R1977	B4	R1969	*C6	RE1101 *B1
R482	*L4	R802	*L5	R978	M7	R170	H2	R1295	*H6	R1434	F2	R1583	*F5	R1765	*G6	R1978	B4	R1970	*C6	RE1101 *B1
R483	*L4	R803	*L5	R979	M7	R171	H2	R1296	*H6	R1435	F2	R1584	*F5	R1766	*G6	R1979	B4	R1971	*C6	RE1101 *B1
R484	*L4	R804	*L5	R980	M7	R172	H2	R1297	*H6	R1436	F2	R1585	*F5	R1767	*G6	R1980	B4	R1972	*C6	RE1101 *B1
R485	*L4	R805	*L5	R981	M7	R173	H2	R1298	*H6	R1437	F2	R1586	*F5	R1768	*G6	R1981	B4	R1973	*C6	RE1101 *B1
R486	*L4	R806	*L5	R982	M7	R174	H2	R1299	*H6	R1438	F2	R1587	*F5	R1769	*G6	R1982	B4	R1974	*C6	RE1101 *B1



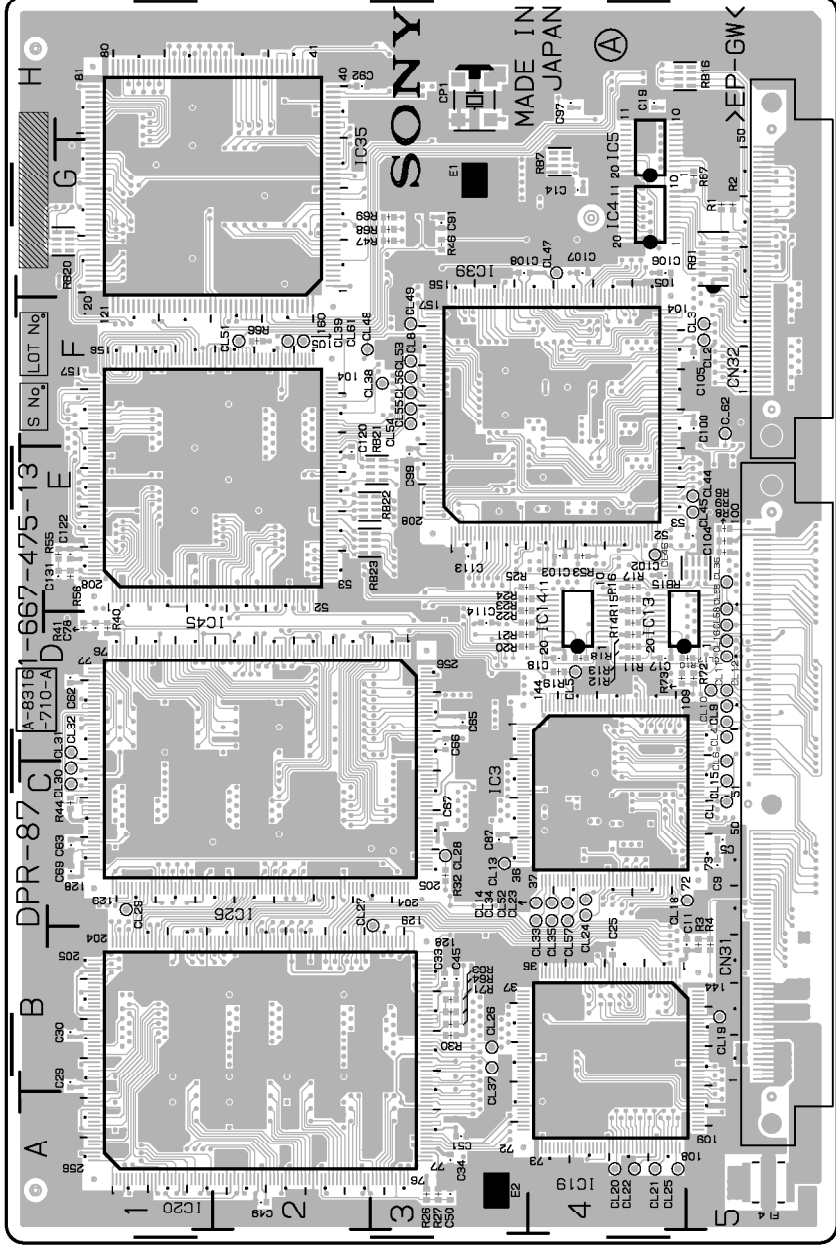
DM-114/114P A SIDE-
SUFFIX: -13



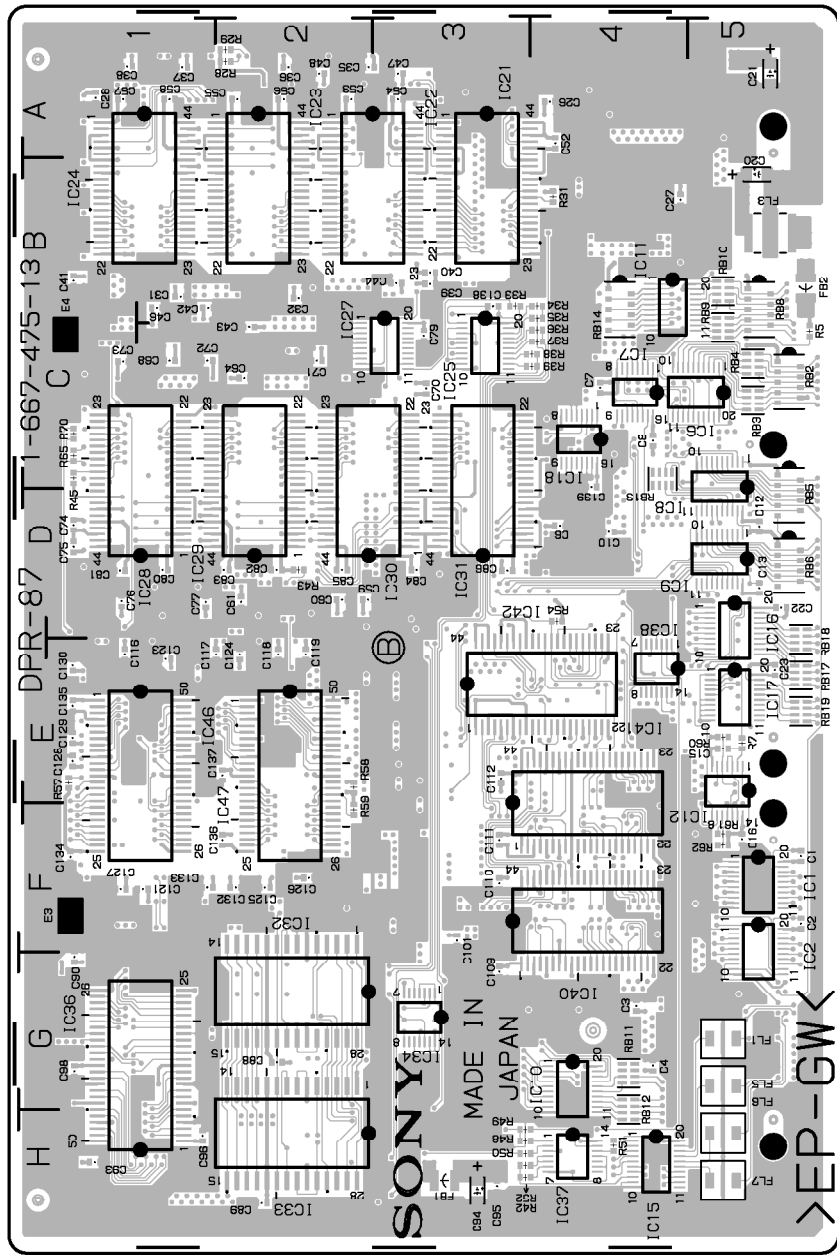
DPR-87(1-667-475-13)

C1	*P5	C94	*H3	CL53	P3	R17	E4
C2	*H1	C95	*H1	CL54	P4	R18	D4
C3	*H1	C96	*H1	CL55	P5	R19	D4
C4	*G4	C97	H4	CL56	P3	R20	D3
C5	*C5	C98	*31	CL57	C4	R21	D3
C6	*D4	C99	E3	CL58	D5	R22	E3
C7	*C4	C100	E3	CL59	P2	R23	E3
C8	*C4	C101	E4	CL60	P5	R24	E3
C9	*C5	C102	E4	CL61	P5	R25	E3
C10	*D4	C103	E4	CL62	P5	R26	E3
C11	*B5	C104	E5	CL63	C5	R27	A3
C12	*C5	C105	E5	CL64	C5	R28	A3
C13	*C5	C106	E5	CL65	C5	R29	A3
C14	*G4	C107	G4	CL66	H3	R30	B3
C15	*B5	C108	G3	CL67	H3	R31	B4
C16	*F5	C109	*G3	CL68	C3	R32	C3
C17	D4	C110	*F3	CL69	E2	R33	B3
C18	*H1	C111	*H1	CL70	E3	R34	B3
C19	H4	C112	E3	CL71	*C1	R35	B4
C20	*B5	C113	E3	CL72	*C4	R36	*C4
C21	*A5	C114	D3	CL73	*H3	R37	*C4
C22	*D5	C115	E3	CL74	*C4	R38	*C4
C23	*B5	C116	*E5	CL75	R39	R39	R38
C24	*H1	C117	E2	CL76	R40	R40	R39
C25	*H1	C118	E2	CL77	*G5	R41	D1
C26	*A4	C119	E2	CL78	*H3	R42	H3
C27	*A4	C120	E2	CL79	A5	R43	A5
C28	*A1	C121	F1	CL80	*S5	R44	R42
C29	B1	C122	E1	CL81	*H5	R45	R44
C30	*H1	C123	E1	CL82	*H5	R46	*C
C31	*B1	C124	E2	CL83	*H5	R47	G3
C32	*C3	C125	*P2	CL84	*P5	R48	G3
C33	B3	C126	*P2	CL85	*P5	R49	*H3
C34	A3	C127	*F1	CL86	*P5	R50	*H3
C35	*A2	C128	*F1	CL87	*P5	R51	*H3
C36	*A2	C129	*F1	CL88	*P5	R52	*H3
C37	*A1	C130	*E1	CL89	*C4	R53	*H3
C38	*A1	C131	*E1	CL90	*C4	R54	E4
C39	*B3	C132	*F2	CL91	*C5	R55	E4
C40	*B3	C133	*F2	CL92	*C5	R56	E4
C41	*B3	C134	*F2	CL93	*C5	R57	E1
C42	*H1	C135	*E1	CL94	*H4	R58	*E1
C43	*C2	C136	*P2	CL95	*H4	R59	*E1
C44	*C4	C137	*E2	CL96	*H4	R60	*E1
C45	*B3	C138	*E3	CL97	*H4	R61	*E1
C46	*B3	C139	*C4	CL98	*H4	R62	*E1
C47	*B3	C140	*C4	CL99	*H4	R63	*E1
C48	*A2	C141	*C5	CL100	*H4	R64	*E1
C49	A2	C142	P5	CL101	*H4	R65	*E1
C50	A3	C143	P5	CL102	*H4	R66	*E1
C51	C1	C144	D5	CL103	*H4	R67	*E1
C52	*A3	C145	D5	CL104	*H4	R68	*E1
C53	*A2	C146	D5	CL105	*H4	R69	*E1
C54	*A3	C147	P3	CL106	*H4	R70	*E1
C55	*A2	C148	P3	CL107	*H4	R71	*E1
C56	*A2	C149	D5	CL108	*H4	R72	*E1
C57	*A2	C150	D5	CL109	*H4	R73	*E1
C58	*A1	C151	D5	CL110	*H4	R74	*E1
C59	*A1	C152	D5	CL111	*H4	R75	*E1
C60	*D2	C153	C3	CL112	*D1	R76	D4
C61	*D2	C154	C4	CL113	*D1	R77	D4
C62	*D1	C155	C5	CL114	*D1	R78	D4
C63	*D1	C156	C5	CL115	*D1	R79	D4
C64	*D1	C157	C5	CL116	*D1	R80	D4
C65	*D3	C158	B5	CL117	*D1	R81	D4
C66	D3	C159	B5	CL118	*D1	R82	D4
C67	C3	C160	A4	CL119	*D1	R83	D4
C68	C3	C161	A4	CL120	*D1	R84	D4
C69	*C1	C162	A4	CL121	*D1	R85	D4
C70	*C3	C163	C4	CL122	*D1	R86	D4
C71	*C2	C164	A4	CL123	*D1	R87	D4
C72	*C2	C165	A4	CL124	*D1	R88	D4
C73	*C1	C166	B3	CL125	*D1	R89	D4
C74	*C1	C167	B3	CL126	*D1	R90	D4
C75	*D1	C168	C1	CL127	*D1	R91	D4
C76	*D1	C169	C1	CL128	*D1	R92	D4
C77	*D1	C170	C1	CL129	*D1	R93	D4
C78	*D1	C171	C1	CL130	*D1	R94	D4
C79	*D1	C172	C1	CL131	*D1	R95	D4
C80	*D1	C173	C1	CL132	*D1	R96	D4
C81	*D1	C174	C1	CL133	*D1	R97	D4
C82	*D1	C175	C1	CL134	*D1	R98	D4
C83	*D1	C176	C1	CL135	*D1	R99	D4
C84	*D1	C177	C1	CL136	*D1	R100	D4
C85	*D1	C178	C1	CL137	*D1	R101	D4
C86	*D1	C179	C1	CL138	*D1	R102	D4
C87	*D1	C180	C1	CL139	*D1	R103	D4
C88	*D1	C181	C1	CL140	*D1	R104	D4
C89	*D1	C182	C1	CL141	*D1	R105	D4
C90	*D1	C183	C1	CL142	*D1	R106	D4
C91	*D1	C184	C1	CL143	*D1	R107	D4
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C93	*D1	C186	C1	CL145	*D1	R109	D4

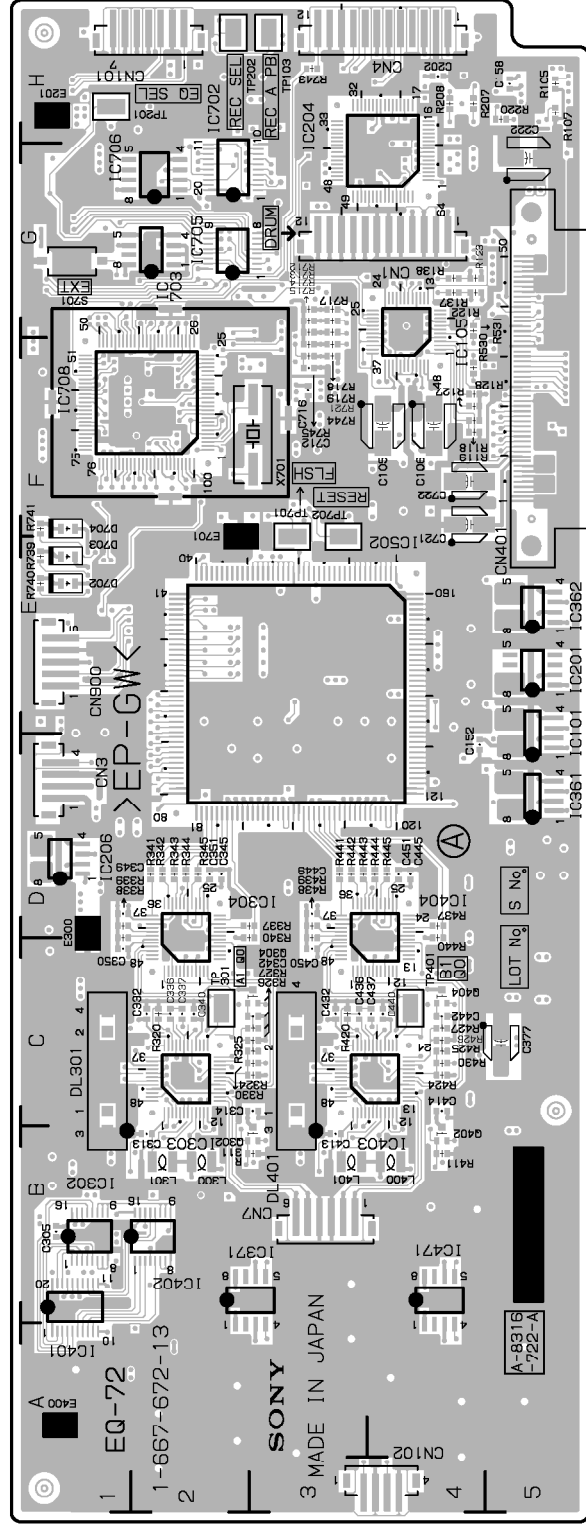
* B SIDE



DPR-87 A SIDE-
SUFFIX:-13



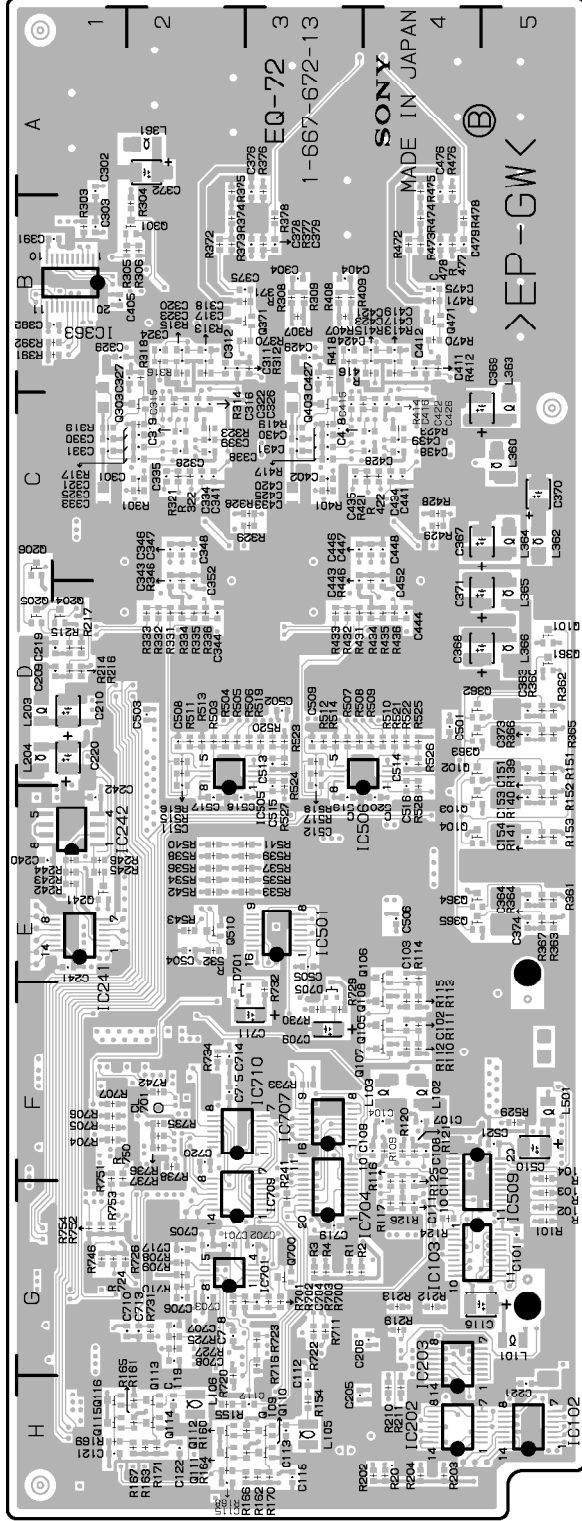
DPR-87 -B SIDE-
SUFFIX: -13



EQ-72 -A SIDE-
SUFFIX: -13

EQ-72(1-567-672-13)

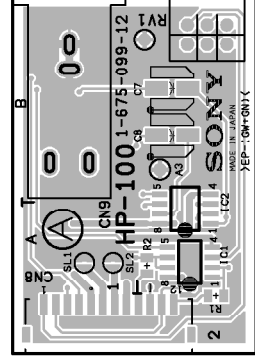
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C102	*G6	C221	*J2	C332	*C2	C375	*E6	C432	*C4	C506	*E5	C718	*G3	IC102	*E6	IC705	*G4	Q105	*E5	Q511	*E3	R128	*P5	R212	*H5	R320	*C2	R364	*E6	R477	*C5
C103	*G7	C222	*J3	C333	*C3	C376	*E7	C433	*C5	C507	*E6	C719	*G4	IC103	*E7	IC706	*G5	Q106	*E6	Q512	*E4	R129	*P6	R213	*H6	R321	*C3	R365	*E7	R478	*C6
C104	*F4	C240	*A1	C334	*C4	C377	*E8	C434	*C6	C510	*E7	C720	*G5	IC104	*E8	IC707	*G6	Q107	*E7	R1	*G3	R136	*G4	R214	*D1	R322	*C4	R366	*E8	R479	*C7
C105	*F4	C241	*J1	C335	*C5	C378	*E9	C435	*C7	C511	*E8	C721	*F4	IC201	*E5	IC708	*F2	Q108	*E8	R2	*G3	R137	*G5	R215	*D5	R323	*C5	R367	*E9	R480	*C8
C106	*F4	C242	*J2	C336	*C6	C379	*E0	C436	*C8	C512	*E9	C722	*F5	IC202	*E6	IC709	*F3	Q109	*E9	R3	*R3	R140	*E6	R216	*D1	R324	*C6	R370	*E0	R481	*C9
C107	*F4	C301	*J7	C337	*C7	C380	*E1	C437	*C9	C513	*E0	C723	*F6	IC203	*E7	IC710	*F4	Q110	*E0	R4	*G3	R141	*E7	R217	*D2	R325	*C7	R371	*E1	R482	*D0
C108	*F4	C302	*J8	C338	*C8	C381	*E2	C438	*C0	C514	*E1	C724	*F7	IC204	*E8	IC711	*F5	Q111	*E1	R5	*G3	R142	*E8	R218	*D3	R326	*C8	R372	*E2	R483	*D1
C109	*F4	C303	*J1	C339	*C9	C402	*C3	C439	*C4	C515	*E2	CU701	*F2	IC205	*E9	IC712	*F6	Q112	*E2	R6	*G3	R143	*E9	R219	*D4	R327	*C9	R373	*E3	R484	*D2
C110	*G4	C304	*J3	C340	*C2	C404	*E3	C440	*C5	C516	*E3			IC206	*E0	IC713	*F7	Q113	*E3	R7	*G3	R144	*E0	R220	*H5	R328	*C3	R374	*E4	R485	*D3
C111	*G4	C305	*J4	C341	*C3	C405	*E4	C441	*C6	C517	*E4	C813	*G4	IC241	*E1	L102	*F4	Q114	*E4	R8	*G3	R145	*E1	R221	*G3	R329	*C4	R375	*E5	R486	*D4
C112	*H3	C306	*J5	C342	*C4	C406	*E5	C442	*C7	C518	*E5	C814	*G5	IC242	*E2	L103	*F5	Q115	*E5	R9	*G3	R146	*E2	R222	*G4	R330	*C5	R376	*E6	R487	*D5
C113	*H3	C315	*E2	C343	*C5	C411	*E6	C443	*C8	C519	*E6	C815	*G6	IC243	*E3	L104	*F6	Q116	*E6	R10	*G3	R147	*E3	R223	*G5	R331	*C6	R377	*E7	R488	*D6
C114	*H3	C316	*E3	C344	*C6	C412	*E7	C444	*C9	C520	*E7	C816	*G7	IC244	*E4	L105	*F7	Q117	*E7	R11	*G3	R148	*E4	R224	*G6	R332	*C7	R378	*E8	R489	*D7
C115	*H4	C317	*E4	C345	*C7	C413	*E8	C445	*C0	C521	*E8	C817	*G8	IC245	*E5	L106	*F8	Q118	*E8	R12	*G3	R149	*E5	R225	*G7	R333	*C8	R379	*E9	R490	*D8
C116	*G4	C318	*E5	C346	*C8	C414	*C4	C446	*C1	C522	*E9	C818	*G9	IC246	*E6	L107	*F9	Q119	*E9	R13	*G3	R150	*E6	R226	*G8	R334	*C9	R380	*E0	R491	*D9
C117	*G4	C319	*E6	C347	*C9	C415	*C5	C447	*C2	C523	*E0	C819	*G0	IC247	*E7	L108	*F0	Q120	*E0	R14	*G3	R151	*E7	R227	*G9	R335	*C0	R381	*E1	R492	*D0
C118	*G5	C320	*E7	C348	*C0	C416	*C6	C448	*C3	C524	*E1	C820	*G1	IC248	*E8	L109	*F1	Q121	*E1	R15	*G3	R152	*E8	R228	*H0	R336	*C1	R382	*E2	R493	*D1
C119	*H2	C316	*E2	C349	*C1	C418	*C4	C449	*C5	C526	*E3	C822	*G3	IC250	*E0	L111	*F3	Q123	*E3	R17	*G3	R154	*E0	R230	*H2	R338	*C3	R384	*E4	R495	*D3
C120	*H2	C317	*E3	C350	*C2	C419	*C5	C450	*C6	C527	*E4	C823	*G4	IC251	*E1	L112	*F4	Q124	*E4	R18	*G3	R155	*E1	R231	*H3	R339	*C4	R385	*E5	R496	*D4
C121	*H2	C318	*E4	C351	*C3	C420	*C6	C451	*C7	C528	*E5	C824	*G5	IC252	*E2	L113	*F5	Q125	*E5	R19	*G3	R156	*E2	R232	*H4	R340	*C5	R386	*E6	R497	*D5
C122	*H3	C319	*E5	C352	*C4	C421	*C7	C452	*C8	C529	*E6	C825	*G6	IC253	*E3	L114	*F6	Q126	*E6	R20	*G3	R157	*E3	R233	*H5	R341	*C6	R387	*E7	R498	*D6
C123	*H3	C320	*E6	C353	*C5	C422	*C8	C453	*C9	C530	*E7	C826	*G7	IC254	*E4	L115	*F7	Q127	*E7	R21	*G3	R158	*E4	R234	*H6	R342	*C7	R388	*E8	R499	*D7
C124	*H3	C321	*E7	C354	*C6	C423	*C9	C454	*C0	C531	*E8	C827	*G8	IC255	*E5	L116	*F8	Q128	*E8	R22	*G3	R159	*E5	R235	*H7	R343	*C8	R389	*E9	R500	*D8
C125	*H4	C322	*E8	C355	*C7	C424	*C0	C455	*C1	C532	*E9	C828	*G9	IC256	*E6	L117	*F9	Q129	*E9	R23	*G3	R160	*E6	R236	*H8	R344	*C9	R390	*E0	R501	*D9
C126	*H4	C323	*E9	C356	*C8	C425	*C1	C456	*C2	C533	*E0	C829	*G0	IC257	*E7	L118	*F0	Q130	*E0	R24	*G3	R161	*E7	R237	*H9	R345	*C0	R391	*E1	R502	*D0
C127	*H4	C324	*E0	C357	*C9	C426	*C2	C457	*C3	C534	*E1	C830	*G1	IC258	*E8	L119	*F1	Q131	*E1	R25	*G3	R162	*E8	R238	*H0	R346	*C1	R392	*E2	R503	*D1
C128	*H5	C325	*E1	C358	*C0	C427	*C3	C458	*C4	C535	*E2	C831	*G2	IC259	*E9	L120	*F2	Q132	*E2	R26	*G3	R163	*E9	R239	*H1	R347	*C2	R393	*E3	R504	*D2
C129	*H5	C326	*E2	C359	*C1	C428	*C4	C459	*C5	C536	*E3	C832	*G3	IC260	*E0	L121	*F3	Q133	*E3	R27	*G3	R164	*E0	R240	*H2	R348	*C3	R394	*E4	R505	*D3
C130	*H5	C327	*E3	C360	*C2	C429	*C5	C460	*C6	C537	*E4	C833	*G4	IC261	*E1	L122	*F4	Q134	*E4	R28	*G3	R165	*E1	R241	*H3	R349	*C4	R395	*E5	R506	*D4
C131	*H5	C328	*E4	C361	*C3	C430	*C6	C461	*C7	C538	*E5	C834	*G5	IC262	*E2	L123	*F5	Q135	*E5	R29	*G3	R166	*E2	R242	*H4	R350	*C5	R396	*E6	R507	*D5
C132	*H5	C329	*E5	C362	*C4	C431	*C7	C462	*C8	C539	*E6	C835	*G6	IC263	*E3	L124	*F6	Q136	*E6	R30	*G3	R167	*E3	R243	*H5	R351	*C6	R397	*E7	R508	*D6
C133	*H5	C330	*E6	C363	*C5	C432	*C8	C463	*C9	C540	*E7	C836	*G7	IC264	*E4	L125	*F7	Q137	*E7	R31	*G3	R168	*E4	R244	*H6	R352	*C7	R398	*E8	R509	*D7
C134	*H5	C331	*E7	C364	*C6	C433	*C9	C464	*C0	C541	*E8	C837	*G8	IC265	*E5	L126	*F8	Q138	*E8	R32	*G3	R169	*E5	R245	*H7	R353	*C8	R399	*E9	R510	*D8
C135	*H5	C332	*E8	C365	*C7	C434	*C0	C465	*C1	C542	*E9	C838	*G9	IC266	*E6	L127	*F9	Q139	*E9	R33	*G3	R170	*E6	R246	*H8	R354	*C9	R400	*E0	R511	*D9
C136	*H5	C333	*E9	C366	*C8	C435	*C1	C466	*C2	C543	*E0	C839	*G0	IC267	*E7	L128	*F0	Q140	*E0	R34	*G3	R171	*E7	R247	*H9	R355	*C0	R401	*E1	R512	*D0
C137	*H5	C334	*E0	C367	*C9	C436	*C2	C467	*C3	C544	*E1	C840	*G1	IC268	*E8	L129	*F1	Q141	*E1	R35	*G3	R172	*E8	R248	*H0	R356	*C1	R402	*E2	R513	*D1
C138	*H5	C335	*E1	C368	*C0	C437	*C3	C468	*C4	C545	*E2	C841	*G2	IC269	*E9	L130	*F2	Q142	*E2	R36	*G3	R173	*E9	R249	*H1	R357	*C2	R403	*E3	R514	*D2
C139	*H5	C336	*E2	C369	*C1	C438	*C4	C469	*C5	C546	*E3	C842	*G3	IC270	*E0	L131	*F3	Q143	*E3	R37	*G3	R174	*E0	R250	*H2	R358	*C3	R404	*E4	R515	*D3
C140	*H5	C337	*E3	C370	*C2	C439	*C5	C470	*C6	C547	*E4	C843	*G4	IC271	*E1	L132	*F4	Q144	*E4	R38	*G3	R175	*E1	R251	*H3	R359	*C4	R405	*E5	R516	*D4
C141	*H5	C338	*E4	C371	*C3	C440	*C6	C471	*C7	C548	*E5	C844	*G5	IC272	*E2	L133	*F5	Q145	*E5	R39	*G3	R176	*E2	R252	*H4	R360	*C5	R406	*E6	R517	*D5
C142	*H5	C339	*E5	C372	*C4	C441	*C7	C472	*C8	C549	*E6	C845	*G6	IC273	*E3	L134	*F6	Q146	*E6	R40	*G3	R177	*E3	R253	*H5	R361	*C6	R407	*E7	R518	*D6
C143	*H5	C340	*E6	C373	*C5	C442	*C8	C473	*C9	C550	*E7	C846	*G7	IC274	*E4	L135	*F7	Q147	*E7	R41	*G3	R178	*E4	R254	*H6	R362	*C7	R408	*E8	R519	*D7
C144	*H5	C341	*E7	C374	*C6	C443	*C9	C474	*C0	C551	*E8	C847	*G8	IC275	*E5	L136	*F8	Q148	*E8	R42	*G3	R179	*E5	R255	*H7	R363	*C8	R409	*E9	R520	*D8
C145	*H5	C342	*E8	C375	*C7	C444	*C0	C475	*C1	C552	*E9	C848	*G9	IC276	*E6	L137	*F9	Q149	*E9	R43	*G3	R180	*E6	R256	*H8	R364	*C9	R410	*E0	R521	*D9
C146	*H5	C343	*E9	C376	*C8	C445	*C1	C476	*C2	C553	*E0	C849	*G0	IC277	*E7	L138	*F0	Q150	*E0	R44	*G3	R181	*E7	R257	*H9	R365	*C0	R411	*E1	R522	*D0
C147	*H5	C344	*E0	C377	*C9	C446	*C2	C477	*C3	C554	*E1	C850	*G1	IC278	*E8	L139	*F1	Q151	*E1	R45	*G3	R182	*E8	R258	*H0	R366	*C1	R412	*E2	R523	*D1
C148	*H5	C345	*E1	C378	*C0	C447	*C3	C478	*C4	C555	*E2	C851	*G2	IC279	*E9	L140	*F2	Q152	*E2	R46	*G3	R183	*E9	R259	*H1	R367	*C2	R413	*E3	R524	*D2
C149	*H5	C346	*E2	C379	*C1	C448	*C4	C479	*C5	C556	*E3	C852	*G3	IC280	*E0	L141	*F3	Q153	*E3	R47	*G3	R184	*E0	R260	*H2	R368	*C3	R414	*E4	R525	*D3
C150	*H5	C347	*E3	C380	*C2	C449	*C5	C480	*C6	C557	*E4	C853	*G4	IC281	*E1	L142	*F4	Q154	*E4	R48	*G3	R185	*E1	R261	*H3	R369	*C4	R415	*E5	R526	*D4
C151	*H5	C348	*E4	C381	*C3	C450	*C6	C481	*C7	C558	*E5	C854	*G5	IC282	*E2	L143															



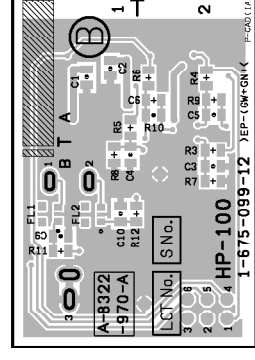
EQ-72 -B SIDE-
SUFFIX: -13

R531	G4	R718	G3	R753	*G1
R532	*E2	R719	G3	R754	*G1
R533	*E2	R720	F2	R755	G1
R534	*E2	R721	F2	R756	G1
R535	E3	R722	*G3	R757	G1
R536	*E2	R723	G3	R758	G1
R537	*E2	R724	G3	R759	G1
R538	*E2	R725	G3	R760	G1
R539	*E2	R726	G3	R761	G1
R540	E2	R727	*G2	R762	G1
R541	E2	R728	*G2	R763	G1
R542	E2	R729	*F3	R764	G1
R543	E2	R730	*F3	R765	G1
R544	E2	R731	*G2	R766	G1
R545	E2	R732	*G2	R767	G1
R546	E2	R733	*G2	R768	G1
R547	E2	R734	*G2	R769	G1
R548	E2	R735	*G2	R770	G1
R549	E2	R736	*G2	R771	G1
R550	E2	R737	*G2	R772	G1
R551	E2	R738	*G2	R773	G1
R552	E2	R739	E1	R774	G1
R553	E2	R740	E1	R775	G1
R554	E2	R741	E1	R776	G1
R555	E2	R742	E1	R777	G1
R556	E2	R743	E1	R778	G1
R557	E2	R744	E1	R779	G1
R558	E2	R745	E1	R780	G1
R559	E2	R746	E1	R781	G1
R560	E2	R747	E1	R782	G1
R561	E2	R748	E1	R783	G1
R562	E2	R749	E1	R784	G1
R563	E2	R750	E1	R785	G1
R564	E2	R751	E1	R786	G1
R565	E2	R752	E1	R787	G1

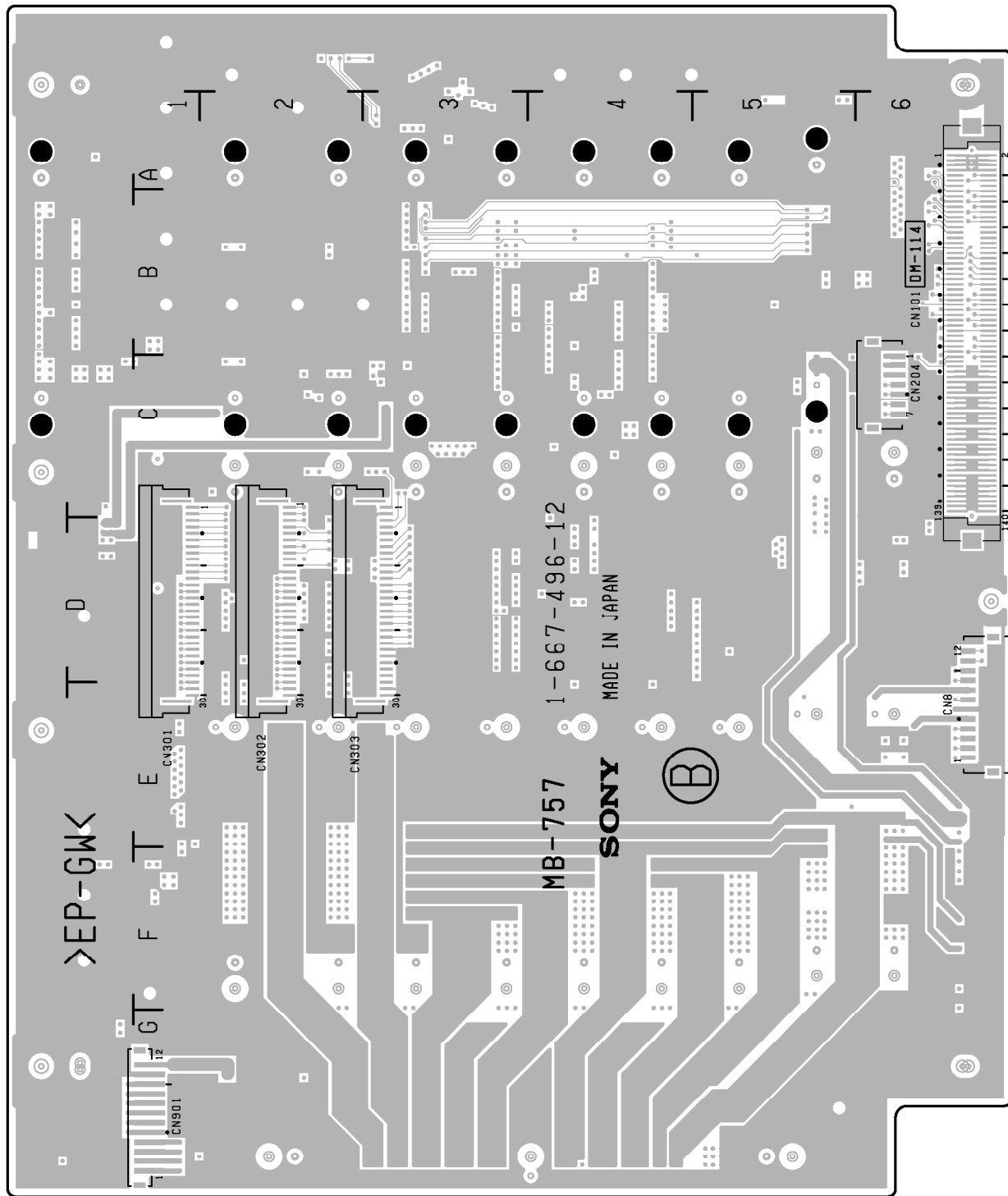
A3	B2	R10	*A2
C1	*A1	R11	*A1
C2	*A1	R12	*A1
C3	*B2	R13	*B2
C4	*A1	R14	*A1
C5	*A2	R15	*A2
C6	*A2	R16	*A2
C7	B2	R17	B2
C8	B2	R18	B2
C9	*B1	R19	*B1
C10	*B1	R20	*B1
C11	*B1	R21	*B1
C12	*B1	R22	*B1
C13	*B1	R23	*B1
C14	*B1	R24	*B1
C15	*B1	R25	*B1
C16	*B1	R26	*B1
C17	*B1	R27	*B1
C18	*B1	R28	*B1
C19	*B1	R29	*B1
C20	*B1	R30	*B1



HP-100 -A SIDE-
SUFFIX: -11, 12

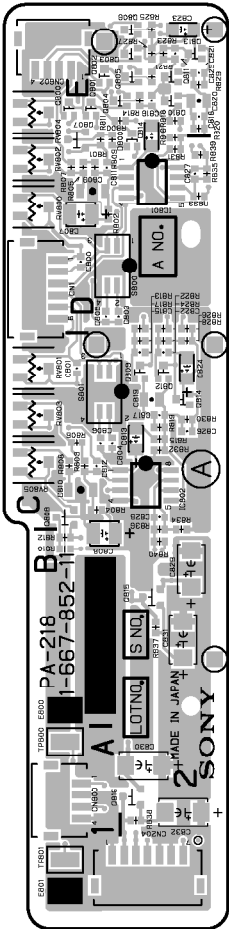


HP-100 -B SIDE-
SUFFIX: -11, 12

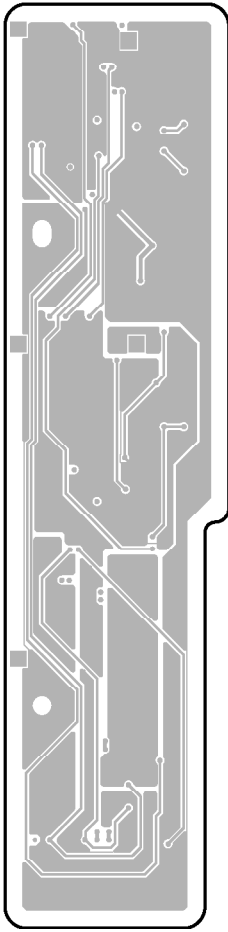




PA-218 (1-667-852-11)		
C800	D1	Q814
C801	D1	Q815
C802	D1	Q816
C803	D1	A2
C804	C1	R800
C805	D1	R801
C806	C1	R802
C807	B1	R803
C808	B1	R804
C809	D1	R805
C810	C1	R806
C811	D1	R807
C812	C1	R808
C813	D1	R809
C814	D2	R810
C815	C2	R811
C816	E2	R812
C817	C2	R813
C818	C2	R814
C819	C2	R815
C820	E2	R816
C821	E2	R817
C822	C2	R818
C823	E2	R819
C824	E2	R820
C825	E2	R821
C826	C2	R822
C827	D2	R823
C828	C2	R824
C829	A2	R825
C830	B2	R826
C831	B2	R827
C832	A2	R828
C833	A2	R829
C834	D1	R830
C835	E2	R831
C836	E2	R832
C837	C2	R833
C838	C2	R834
C839	C2	R835
C840	C2	R836
D800	D2	R837
E800	B1	R838
E801	A1	R839
E802	D2	R840
IC801	C1	RV800
IC802	C1	RV801
Q800	E1	RV802
Q801	E1	RV803
Q802	E1	RV804
Q803	E2	RV805
Q804	E1	S800
Q805	E1	S801
Q806	E2	TP800
Q807	D1	TP801
Q808	C1	A1
Q809	C2	A1
Q810	E2	A1
Q811	E2	A1
Q812	C2	A1
Q813	E2	A1



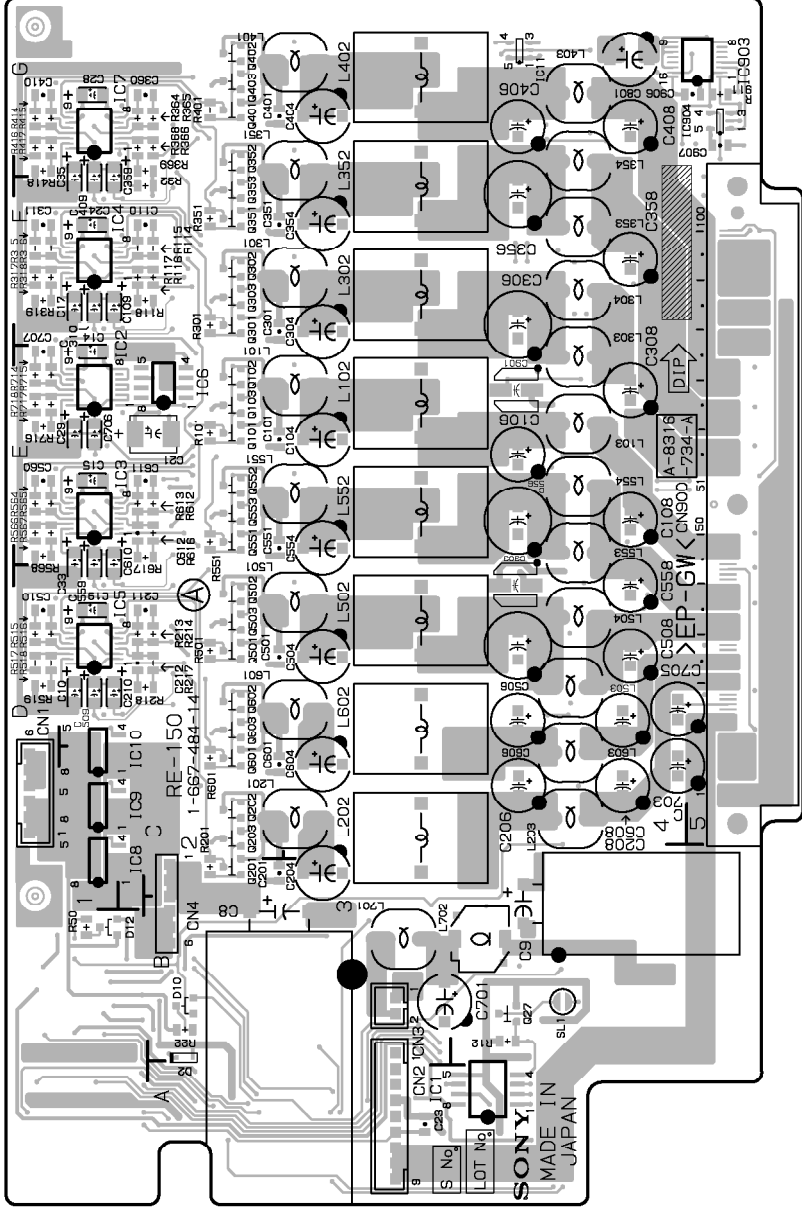
PA-218 -A SIDE-
SUFFIX: -11



PA-218 -B SIDE-
SUFFIX: -11

RE-150(1-667-484-14)

C1	*A4	C410	G1	D801	*A4	Q202	C2
C2	*A1	C502	D2	D803	*A4	Q201	*C4
C4	*A4	C503	D2	D901	*A4	Q301	F2
C5	*A4	C504	D3	IC1	A4	Q302	F2
C6	*A2	C505	D4	IC2	B2	Q303	F2
C7	*A1	C506	D4	IC3	B2	Q304	F2
C8	*A2	C507	D4	IC4	B2	Q305	F2
C9	*A4	C508	D4	IC5	D2	Q351	F2
C10	D1	C509	D1	IC5	D2	Q352	G2
C11	*D1	C510	D1	IC6	B2	Q353	G2
C12	*C1	C511	D2	IC7	G2	Q354	G2
C13	*C2	C512	D2	IC8	G2	Q355	G2
C14	E1	C513	E2	IC9	C1	Q401	G2
C15	E1	C514	E2	IC10	C1	Q402	G2
C16	*A4	C515	E4	IC11	G4	Q403	G2
C17	F1	C516	E4	IC12	*C1	Q404	G2
C18	*D1	C517	D5	IC13	*C1	Q405	F2
C19	D1	C518	D5	IC14	*C1	Q406	F2
C20	*F1	C519	E1	IC15	*A3	Q501	D2
C21	E2	C520	E1	IC16	*A3	Q502	D2
C22	*E2	C521	C2	IC17	*B3	Q503	D2
C23	A3	C522	C2	IC18	*B3	Q504	D2
C24	*C3	C523	C2	IC19	*B3	Q505	D2
C25	*E1	C524	C3	IC20	*B2	Q551	E2
C26	*G2	C525	*D4	IC21	*B2	Q552	E2
C27	*G1	C526	*D4	IC22	*C3	Q553	E2
C28	G1	C527	*D4	IC23	*F3	Q554	E2
C29	E1	C528	*D4	IC24	*F3	Q555	E2
C30	*E2	C529	*D5	IC25	*F3	Q601	C2
C31	E1	C530	E1	IC26	*F3	Q602	D2
C32	*A1	C531	E2	IC27	*F3	Q603	D2
C33	E1	C532	E2	IC28	*F3	Q604	D2
C34	*E1	C533	E3	IC29	*F3	Q605	D2
C35	*C3	C534	*F3	IC30	*F3	Q606	D2
C36	*F1	C535	*C4	IC31	*F3	Q607	D2
C37	*A1	C536	*D4	IC32	*F3	Q608	D2
C38	*A1	C537	*D4	IC33	*F3	Q609	D2
C39	*A4	C538	*D4	IC34	*F3	Q610	D2
C40	*A4	C539	*D4	IC35	*F3	Q611	D2
C41	*A4	C540	*D4	IC36	*F3	Q612	D2
C42	*A4	C541	*D4	IC37	*F3	Q613	D2
C43	*A4	C542	*D4	IC38	*F3	Q614	D2
C44	*A4	C543	*D4	IC39	*F3	Q615	D2
C45	*A4	C544	*D4	IC40	*F3	Q616	D2
C46	*A4	C545	*D4	IC41	*F3	Q617	D2
C47	*A4	C546	*D4	IC42	*F3	Q618	D2
C48	*A4	C547	*D4	IC43	*F3	Q619	D2
C49	*A4	C548	*D4	IC44	*F3	Q620	D2
C50	*A4	C549	*D4	IC45	*F3	Q621	D2
C51	*A4	C550	*D4	IC46	*F3	Q622	D2
C52	*A4	C551	*D4	IC47	*F3	Q623	D2
C53	*A4	C552	*D4	IC48	*F3	Q624	D2
C54	*A4	C553	*D4	IC49	*F3	Q625	D2
C55	*A4	C554	*D4	IC50	*F3	Q626	D2
C56	*A4	C555	*D4	IC51	*F3	Q627	D2
C57	*A4	C556	*D4	IC52	*F3	Q628	D2
C58	*A4	C557	*D4	IC53	*F3	Q629	D2
C59	*A4	C558	*D4	IC54	*F3	Q630	D2
C60	*A4	C559	*D4	IC55	*F3	Q631	D2
C61	*A4	C560	*D4	IC56	*F3	Q632	D2
C62	*A4	C561	*D4	IC57	*F3	Q633	D2
C63	*A4	C562	*D4	IC58	*F3	Q634	D2
C64	*A4	C563	*D4	IC59	*F3	Q635	D2
C65	*A4	C564	*D4	IC60	*F3	Q636	D2
C66	*A4	C565	*D4	IC61	*F3	Q637	D2
C67	*A4	C566	*D4	IC62	*F3	Q638	D2
C68	*A4	C567	*D4	IC63	*F3	Q639	D2
C69	*A4	C568	*D4	IC64	*F3	Q640	D2
C70	*A4	C569	*D4	IC65	*F3	Q641	D2
C71	*A4	C570	*D4	IC66	*F3	Q642	D2
C72	*A4	C571	*D4	IC67	*F3	Q643	D2
C73	*A4	C572	*D4	IC68	*F3	Q644	D2
C74	*A4	C573	*D4	IC69	*F3	Q645	D2
C75	*A4	C574	*D4	IC70	*F3	Q646	D2
C76	*A4	C575	*D4	IC71	*F3	Q647	D2
C77	*A4	C576	*D4	IC72	*F3	Q648	D2
C78	*A4	C577	*D4	IC73	*F3	Q649	D2
C79	*A4	C578	*D4	IC74	*F3	Q650	D2
C80	*A4	C579	*D4	IC75	*F3	Q651	D2
C81	*A4	C580	*D4	IC76	*F3	Q652	D2
C82	*A4	C581	*D4	IC77	*F3	Q653	D2
C83	*A4	C582	*D4	IC78	*F3	Q654	D2
C84	*A4	C583	*D4	IC79	*F3	Q655	D2
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C86	*A4	C585	*D4	IC81	*F3	Q657	D2
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C147	*A4	C646	*D4	IC142	*F3	Q718	D2
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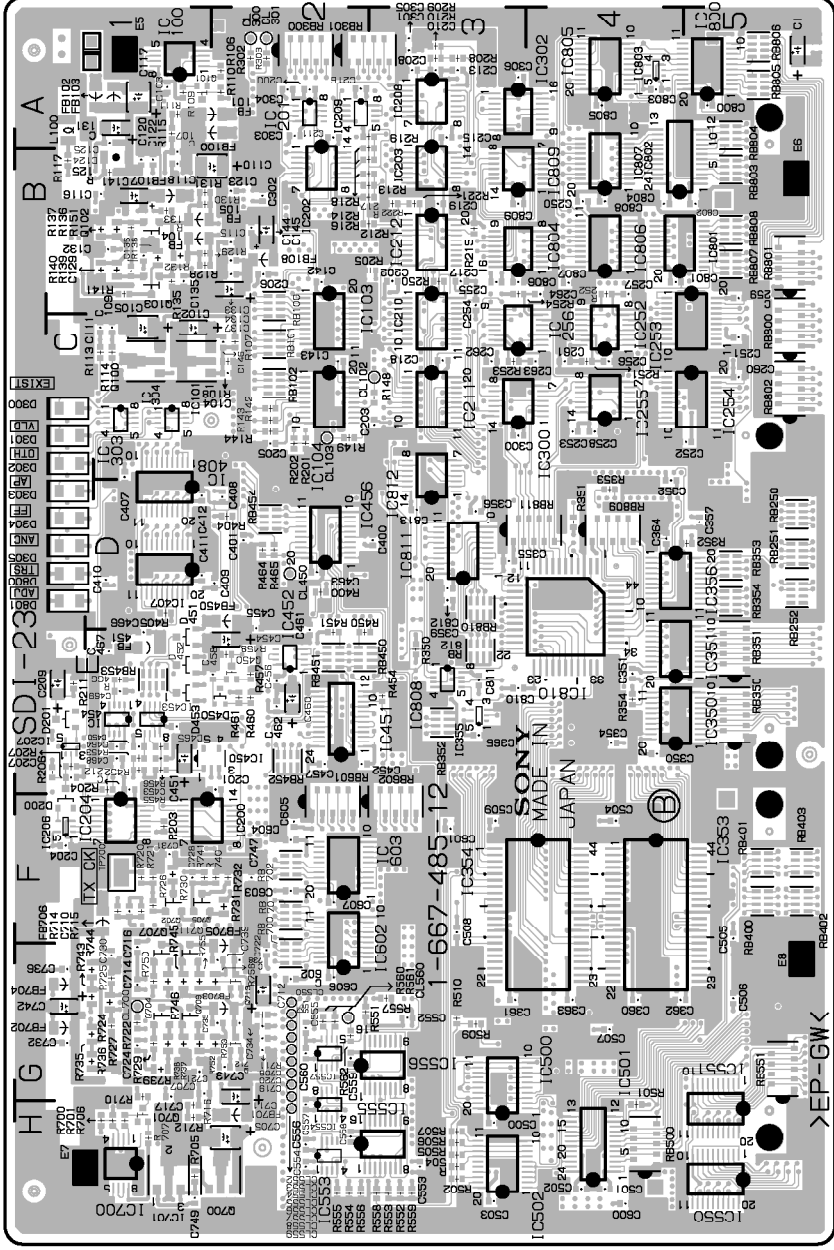


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SUFFIX: -14

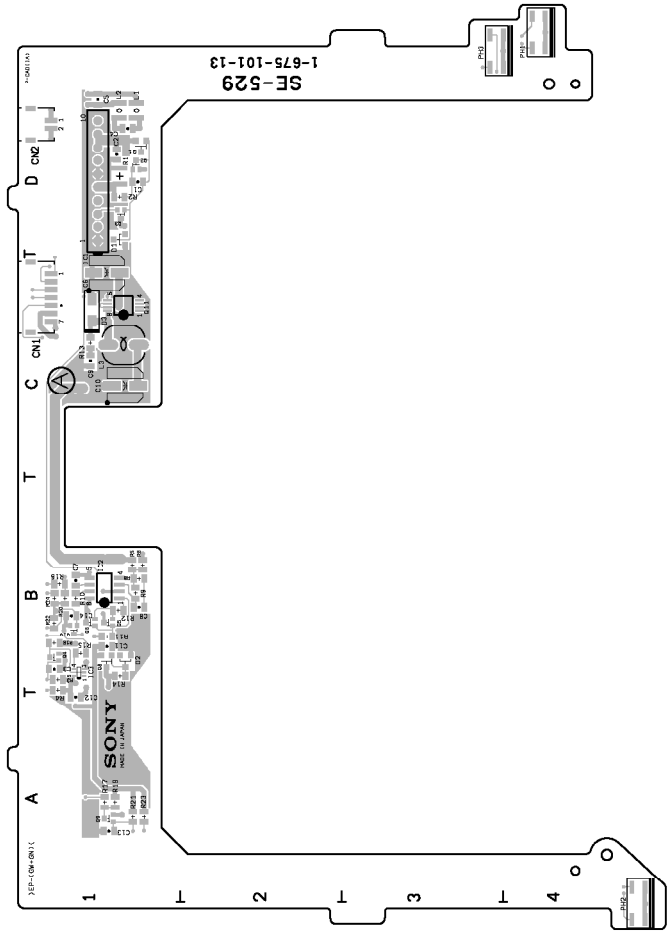
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R50	R421	G1	R313	*E5
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R159	R530	G1	R422	*E4
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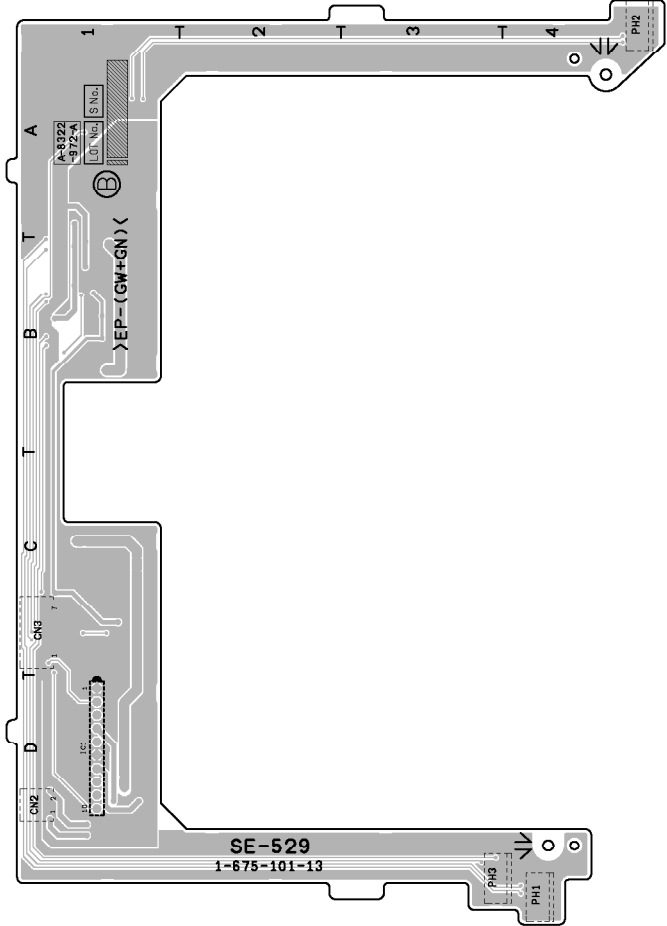
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C6	A4	C309	E1	C721	G1	E6	H5
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C8	A1	C311	E1	C722	G1	E8	G5
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C10	A1	C313	E1	C723	G1	E9	A2
C11	C1	C314	E1	C724	E4	E10	A2
C12	C1	C315	E1	C725	E4	E11	A1
C13	C1	C316	E1	C726	E4	E12	A1
C14	C1	C317	E1	C727	E4	E13	A1
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C26	C1	C329	E1	C739	E4	E25	A1
C27	C1	C330	E1	C740	E4	E26	A1
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C30	C1	C333	E1	C743	E4	E29	A1
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C32	C1	C335	E1	C745	E4	E31	A1
C33	C1	C336	E1	C746	E4	E32	A1
C34	C1	C337	E1	C747	E4	E33	A1
C35	C1	C338	E1	C748	E4	E34	A1
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C37	C1	C340	E1	C750	E4	E36	A1
C38	C1	C341	E1	C751	E4	E37	A1
C39	C1	C342	E1	C752	E4	E38	A1
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C44	C1	C347	E1	C757	E4	E43	A1
C45	C1	C348	E1	C758	E4	E44	A1
C46	C1	C349	E1	C759	E4	E45	A1
C47	C1	C350	E1	C760	E4	E46	A1
C48	C1	C351	E1	C761	E4	E47	A1
C49	C1	C352	E1	C762	E4	E48	A1
C50	C1	C353	E1	C763	E4	E49	A1
C51	C1	C354	E1	C764	E4	E50	A1
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C53	C1	C356	E1	C766	E4	E52	A1
C54	C1	C357	E1	C767	E4	E53	A1
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C58	C1	C361	E1	C771	E4	E57	A1
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C60	C1	C363	E1	C773	E4	E59	A1
C61	C1	C364	E1	C774	E4	E60	A1
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C65	C1	C368	E1	C778	E4	E64	A1
C66	C1	C369	E1	C779	E4	E65	A1
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C73	C1	C376	E1	C786	E4	E72	A1
C74	C1	C377	E1	C787	E4	E73	A1
C75	C1	C378	E1	C788	E4	E74	A1
C76	C1	C379	E1	C789	E4	E75	A1
C77	C1	C380	E1	C790	E4	E76	A1
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C79	C1	C382	E1	C792	E4	E78	A1
C80	C1	C383	E1	C793	E4	E79	A1
C81	C1	C384	E1	C794	E4	E80	A1
C82	C1	C385	E1	C795	E4	E81	A1
C83	C1	C386	E1	C796	E4	E82	A1
C84	C1	C387	E1	C797	E4	E83	A1
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C90	C1	C393	E1	C803	E4	E89	A1
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C92	C1	C395	E1	C805	E4	E91	A1
C93	C1	C396	E1	C806	E4	E92	A1
C94	C1	C397	E1	C807	E4	E93	A1
C95	C1	C398	E1	C808	E4	E94	A1
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C100	C1	C403	E1	C813	E4	E99	A1
C101	C1	C404	E1	C814	E4	E100	A1
C102	C1	C405	E1	C815	E4	E101	A1
C103	C1	C406	E1	C816	E4	E102	A1
C104	C1	C407	E1	C817	E4	E103	A1
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C107	C1	C410	E1	C820	E4	E106	A1
C108	C1	C411	E1	C821	E4	E107	A1
C109	C1	C412	E1	C822	E4	E108	A1
C110	C1	C413	E1	C823	E4	E109	A1
C111	C1	C414	E1	C824	E4	E110	A1
C112	C1	C415	E1	C825	E4	E111	A1
C113	C1	C416	E1	C826	E4	E112	A1
C114	C1	C417	E1	C827	E4	E113	A1
C115	C1	C418	E1	C828	E4	E114	A1
C116	C1	C419	E1	C829	E4	E115	A1
C117	C1	C420	E1	C830	E4	E116	A1
C118	C1	C421	E1	C831	E4	E117	A1
C119	C1	C422	E1	C832	E4	E118	A1
C120	C1	C423	E1	C833	E4	E119	A1
C121	C1	C424	E1	C834	E4	E120	A1
C122	C1	C425	E1	C835	E4	E121	A1
C123	C1	C426	E1	C836	E4	E122	A1
C124	C1	C427	E1	C837	E4	E123	A1
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C126	C1	C429	E1	C839	E4	E125	A1
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C130	C1	C433	E1	C843	E4	E129	A1
C131	C1	C434	E1	C844	E4	E130	A1
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C157	C1	C460	E1	C870	E4	E156	A1
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C167	C1	C470	E1	C880	E4	E166	A1
C168	C1	C471	E1	C881	E4	E167	A1
C169	C1	C472	E1	C882	E4	E168	A1
C170	C1	C473	E1	C883	E4	E169	A1
C171	C1	C474	E1	C884	E4	E170	A1
C172	C1	C475	E1	C885	E4	E171	A1
C173	C1	C476	E1	C886	E4	E172	A1
C174	C1	C477	E1	C887	E4	E173	A1
C175	C1	C478	E1	C888	E4	E174	A1
C176	C1	C479	E1	C889	E4	E175	A1
C177	C1	C480	E1	C890	E4	E176	A1
C178	C1	C481	E1	C891	E4	E177	A1
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C184	C1	C487	E1	C897	E4	E183	A1
C185	C1	C488	E1	C898	E4	E184	A1
C186	C1	C489	E1	C899	E4	E185	A1
C187	C1	C490	E1	C900	E4	E186	A1
C188	C1	C491	E1	C901	E4	E187	A1
C189	C1	C492	E1	C902	E4	E188	A1
C190	C1	C493	E1	C903	E4	E189	A1
C191	C1	C494	E1	C904	E4	E190	A1
C192	C1	C495	E1	C905	E4	E191	A1
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C197	C1	C500	E1	C910	E4	E196	A1
C198	C1	C501	E1	C911	E4	E197	A1
C199	C1	C502	E1	C912	E4	E198	A1
C200	C1	C503	E1	C913	E4	E199	A1
C201	C1	C504	E1	C914	E4	E200	A1
C202	C1	C505	E1	C915	E4	E201	A1
C203	C1	C506	E1	C916	E4	E202	A1
C204	C1	C507	E1	C917	E4	E203	A1
C205	C1	C508	E1	C918	E4	E204	A1
C206	C1	C509	E1	C919	E4	E205	A1
C207	C1	C510	E1	C920	E4	E206	A1
C208	C1	C511	E1	C921	E4	E207	A1



SDI-23 -B SIDE-
SUFFIX: -12



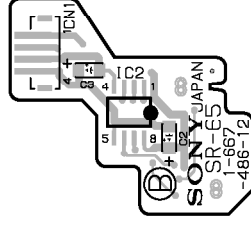
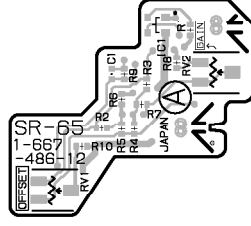
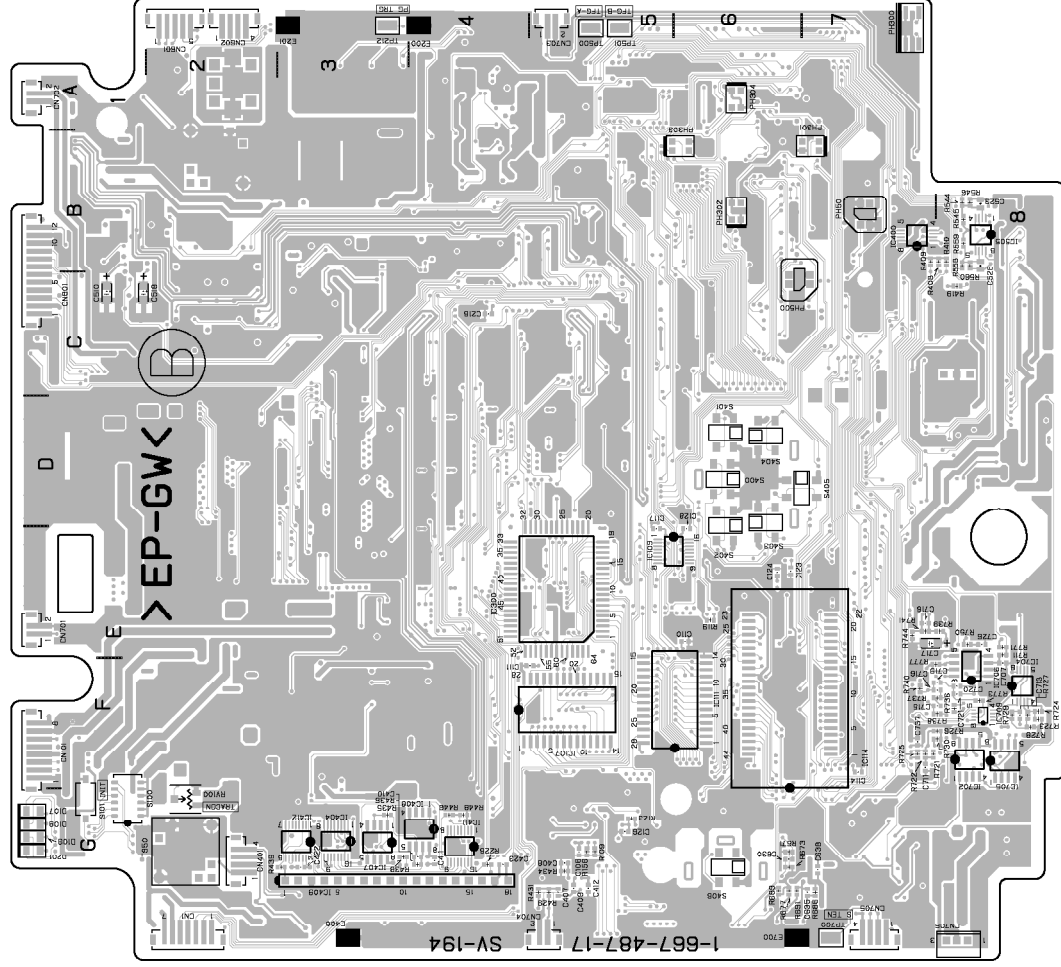
SE-529 -A SIDE-
SUFFIX: -12, 13



SE-529 -B SIDE-
SUFFIX: -12, 13

SE-529(1-675-101-12,13)

C1	D1	IC2	B1	R2	D1
C2	D1	IC3	B1	R3	B1
C3	B1	L1	D1	R4	B1
C4	B1	L2	D1	R5	B1
C5	D1	L3	C1	R6	B1
C6	C1	R8	B1	R7	B1
C7	B1	R9	B1	R8	B1
C8	B1	PH1	D4	R9	B1
C9	B1	PH2	R10	R10	B1
C10	C1	PH3	D3	R11	B1
C11	B1	B1	R12	R12	C1
C12	A1	Q1	D1	R13	B1
C13	A1	Q2	D1	R14	B1
C14	B1	Q3	D1	R15	B1
C15	B1	Q4	D1	R16	B1
C16	B1	Q5	B1	R17	B1
C17	C1	Q6	B1	R18	B1
C18	D1	Q7	B1	R19	B1
C19	D1	Q8	B1	R20	B1
C20	D1	Q9	A1	R21	B1
C21	D1	Q10	A1	R22	B1
C22	C1	Q11	C1	R23	B1
C23	C1	Q12	C1	R24	B1
C24	C1	Q13	C1	R25	B1

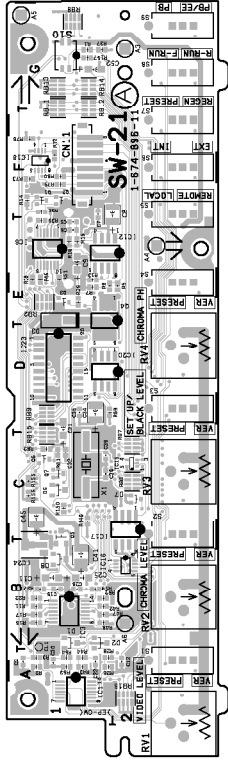


SR-65 -A SIDE-
SUFFIX: -12

SR-65 -B SIDE-
SUFFIX: -12

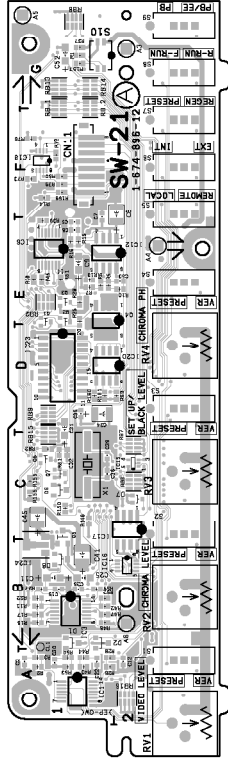
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3306	3307	3308	3309	3310	3311	3312	3313	3314	3315	3316	3317	3318	3319	3320	3321	3322	3323	3324	3325	3326	3327	3328	3329	3330	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	3341	3342	3343	3344	3345	3346	3347	3348	3349	3350	3351	3352	3353	3354	3355	3356	3357	3358	3359	3360	3361	3362	3363	3364	3365	3366	3367	3368	3369	3370	3371	3372	3373	3374	3375	3376	3377	3378	3379	3380	3381	3382	3383	3384	3385	3386	3387	3388	3389	3390	3391	3392	3393	3394	3395	3396	3397	3398	3399	3400	3401	3402	3403	3404	3405	3406	3407	3408	3409	3410																																																																																										
D3	R411	B7	R521	B2	R615	C1	R676	*P7	R740	*P7	R931	G2	TP201	A63	TP211	G2	TP221	A63	TP231	G2	TP241	A63	TP251	G2	TP261	A63	TP271	G2	TP281	A63	TP291	G2	TP301	A63	TP311	G2	TP321	A63	TP331	G2	TP341	A63	TP351	G2	TP361	A63	TP371	G2	TP381	A63	TP391	G2	TP401	A63	TP411	G2	TP421	A63	TP431	G2	TP441	A63	TP451	G2	TP461	A63	TP471	G2	TP481	A63	TP491	G2	TP501	A63	TP511	G2	TP521	A63	TP531	G2	TP541	A63	TP551	G2	TP561	A63	TP571	G2	TP581	A63	TP591	G2	TP601	A63	TP611	G2	TP621	A63	TP631	G2	TP641	A63	TP651	G2	TP661	A63	TP671	G2	TP681	A63	TP691	G2	TP701	A63	TP711	G2	TP721	A63	TP731	G2	TP741	A63	TP751	G2	TP761	A63	TP771	G2	TP781	A63	TP791	G2	TP801	A63	TP811	G2	TP821	A63	TP831	G2	TP841	A63	TP851	G2	TP861	A63	TP871	G2	TP881	A63	TP891	G2	TP901	A63	TP911	G2	TP921	A63	TP931	G2	TP941	A63	TP951	G2	TP961	A63	TP971	G2	TP981	A63	TP991	G2	TP1001	A63																				
D3	R412	B7	R522	C2	R616	B1	R677	*P6	R741	*P7	R932	G2	TP101	G5	TP1101	A5	TP1201	A5	TP1301	A5	TP1401	A5	TP1501	A5	TP1601	A5	TP1701	A5	TP1801	A5	TP1901	A5	TP2001	A5	TP2101	A5	TP2201	A5	TP2301	A5	TP2401	A5	TP2501	A5	TP2601	A5	TP2701	A5	TP2801	A5	TP2901	A5	TP3001	A5	TP3101	A5	TP3201	A5	TP3301	A5	TP3401	A5	TP3501	A5	TP3601	A5	TP3701	A5	TP3801	A5	TP3901	A5	TP4001	A5	TP4101	A5	TP4201	A5	TP4301	A5	TP4401	A5	TP4501	A5	TP4601	A5	TP4701	A5	TP4801	A5	TP4901	A5	TP5001	A5	TP5101	A5	TP5201	A5	TP5301	A5	TP5401	A5	TP5501	A5	TP5601	A5	TP5701	A5	TP5801	A5	TP5901	A5	TP6001	A5	TP6101	A5	TP6201	A5	TP6301	A5	TP6401	A5	TP6501	A5	TP6601	A5	TP6701	A5	TP6801	A5	TP6901	A5	TP7001	A5	TP7101	A5	TP7201	A5	TP7301	A5	TP7401	A5	TP7501	A5	TP7601	A5	TP7701	A5	TP7801	A5	TP7901	A5	TP8001	A5	TP8101	A5	TP8201	A5	TP8301	A5	TP8401	A5	TP8501	A5	TP8601	A5	TP8701	A5	TP8801	A5	TP8901	A5	TP9001	A5	TP9101	A5	TP9201	A5	TP9301	A5	TP9401	A5	TP9501	A5	TP9601	A5	TP9701	A5	TP9801	A5	TP9901	A5	TP1001	A5
D3	R413	B7	R523	C2	R617	B1	R678	*P6	R742	*P7	R933	G2	TP211	A63	TP221	G2	TP231	A63	TP241	G2	TP251	A63	TP261	G2	TP271	A63	TP281	G2	TP291	A63	TP301	G2	TP311	A63	TP321	G2	TP331	A63	TP341	G2	TP351	A63	TP361	G2	TP371	A63	TP381	G2	TP391	A63	TP401	G2	TP411	A63	TP421	G2	TP431	A63	TP441	G2	TP451	A63	TP461	G2	TP471	A63	TP481	G2	TP491	A63	TP501	G2	TP511	A63	TP521	G2	TP531	A63	TP541	G2	TP551	A63	TP561	G2	TP571	A63	TP581	G2	TP591	A63	TP601	G2	TP611	A63	TP621	G2	TP631	A63	TP641	G2	TP651	A63	TP661	G2	TP671	A63	TP681	G2	TP691	A63	TP701	G2	TP711	A63	TP721	G2	TP731	A63	TP741	G2	TP751	A63	TP761	G2	TP771	A63	TP781	G2	TP791	A63	TP801	G2	TP811	A63	TP821	G2	TP831	A63	TP841	G2	TP851	A63	TP861	G2	TP871	A63	TP881	G2	TP891	A63	TP901	G2	TP911	A63	TP921	G2	TP931	A63	TP941	G2	TP951	A63	TP961	G2	TP971	A63	TP981	G2	TP991	A63	TP1001	A63																						
D3	R414	B7	R524	C2	R618	B1	R679	*P7	R743	*P7	R934	G2	TP221	A63	TP231	G2	TP241	A63	TP251	G2	TP261	A63	TP271	G2	TP281	A63	TP291	G2	TP301	A63	TP311	G2	TP321	A63	TP331	G2	TP341	A63	TP351	G2	TP361	A63	TP371	G2	TP381	A63	TP391	G2	TP401	A63	TP411	G2	TP421	A63	TP431	G2	TP441	A63	TP451	G2	TP461	A63	TP471	G2	TP481	A63	TP491	G2	TP501	A63	TP511	G2	TP521	A63	TP531	G2	TP541	A63	TP551	G2	TP561	A63	TP571	G2	TP581	A63	TP591	G2	TP601	A63	TP611	G2	TP621	A63	TP631	G2	TP641	A63	TP651	G2	TP661	A63	TP671	G2	TP681	A63	TP691	G2	TP701	A63	TP711	G2	TP721	A63	TP731	G2	TP741	A63	TP751	G2	TP761	A63	TP771	G2	TP781	A63	TP791	G2	TP801	A63	TP811	G2	TP821	A63	TP831	G2	TP841	A63	TP851	G2	TP861	A63	TP871	G2	TP881	A63	TP891	G2	TP901	A63	TP911	G2	TP921	A63	TP931	G2	TP941	A63	TP951	G2	TP961	A63	TP971	G2	TP981	A63	TP991	G2	TP1001	A63																								
D3	R415	B7	R525	C2	R619	B1	R680	*P7	R744	*P7	R935	G2	TP231	A63	TP241	G2	TP251	A63	TP261	G2	TP271	A63	TP281	G2	TP291	A63	TP301	G2	TP311	A63	TP321	G2	TP331	A63	TP341	G2	TP351	A63	TP361	G2	TP371	A63	TP381	G2	TP391	A63	TP401	G2	TP411	A63	TP421	G2	TP431	A63	TP441	G2	TP451	A63	TP461	G2	TP471	A63	TP481	G2	TP491	A63	TP501	G2	TP511	A63	TP521	G2	TP531	A63	TP541	G2	TP551	A63	TP561	G2	TP571	A63	TP581	G2	TP591	A63	TP601	G2	TP611	A63	TP621	G2	TP631	A63	TP641	G2	TP651	A63	TP661	G2	TP671	A63	TP681	G2	TP691	A63	TP701	G2	TP711	A63	TP721	G2	TP731	A63	TP741	G2	TP751	A63	TP761	G2	TP771	A63	TP781	G2	TP791	A63	TP801	G2	TP811	A63	TP821	G2	TP831	A63	TP841	G2	TP851	A63	TP861	G2	TP871	A63	TP881	G2	TP891	A63	TP901	G2	TP911	A63	TP921	G2	TP931	A63	TP941	G2	TP951	A63	TP961	G2	TP971	A63	TP981	G2	TP991	A63	TP1001	A63																										
D3	R416	B7	R526	C2	R620	B1	R681	*P7	R745	*P7	R936	G2	TP241	A63	TP251	G2	TP261	A63	TP271	G2	TP281	A63	TP291	G2	TP301	A63	TP311	G2	TP321	A63	TP331	G2	TP341	A63	TP351	G2	TP361	A63	TP371	G2	TP381	A63	TP391	G2	TP401	A63	TP411	G2	TP421	A63	TP431	G2	TP441	A63	TP451	G2	TP461	A63	TP471	G2	TP481	A63	TP491	G2	TP501	A63	TP511	G2	TP521	A63	TP531	G2	TP541	A63	TP551	G2	TP561	A63	TP571	G2	TP581	A63	TP591	G2	TP601	A63	TP611	G2	TP621	A63	TP631	G2	TP641	A63	TP651	G2	TP661	A63	TP671	G2	TP681	A63	TP691	G2	TP701	A63	TP711	G2	TP721	A63	TP731	G2	TP741	A63	TP751	G2	TP761	A63	TP771	G2	TP781	A63	TP791	G2	TP801	A63	TP811	G2	TP821	A63	TP831	G2	TP841	A63	TP851	G2	TP861	A63	TP871	G2	TP881	A63	TP891	G2	TP901	A63	TP911	G2	TP921	A63	TP931	G2	TP941	A63	TP951	G2	TP961	A63	TP971	G2	TP981	A63	TP991	G2	TP1001	A63																												
D3	R417	B7	R527	C2	R621	B1	R682	*P7	R746	*P7	R937	G2	TP251	A63	TP261	G2	TP271	A63	TP281	G2	TP291	A63	TP301	G2	TP311	A63	TP321	G2	TP331	A63	TP341	G2	TP351	A63	TP361	G2	TP371	A63	TP381	G2	TP391	A63	TP401	G2	TP411	A63	TP421	G2	TP431	A63	TP441	G2	TP451	A63	TP461	G2	TP471	A63	TP481	G2	TP491	A63	TP501	G2	TP511	A63	TP521	G2	TP531	A63	TP541	G2	TP551	A63	TP561	G2	TP571	A63	TP581	G2	TP591	A63	TP601	G2	TP611	A63	TP621	G2	TP631	A63	TP641	G2	TP651	A63	TP661	G2	TP671	A63	TP681	G2	TP691	A63	TP701	G2	TP711	A63	TP721	G2	TP731	A63	TP741	G2	TP751	A63	TP761	G2	TP771	A63	TP781	G2	TP791	A63	TP801	G2	TP811	A63	TP821	G2	TP831	A63	TP841	G2	TP851	A63	TP861	G2	TP871	A63	TP881	G2	TP891	A63	TP901	G2	TP911	A63	TP921	G2	TP931	A63	TP941	G2	TP951	A63	TP961	G2	TP971	A63	TP981	G2	TP991	A63	TP1001	A63																														
D3	R418	B7	R528	C2	R622	B1	R683	*P7	R747	*P7	R938	G2	TP261	A63	TP271	G2	TP281	A63	TP291	G2	TP301	A63	TP311	G2	TP321	A63	TP331	G2	TP341	A63	TP351	G2	TP361	A63	TP371	G2	TP381	A63	TP391	G2	TP401	A63	TP411	G2	TP421	A63	TP431	G2	TP441	A63	TP451	G2	TP461	A63	TP471	G2	TP481	A63	TP491	G2	TP501	A63	TP511	G2	TP521	A63	TP531	G2	TP541	A63	TP551	G2	TP561	A63	TP571	G2	TP581	A63	TP591	G2	TP601	A63	TP611	G2	TP621	A63	TP631	G2	TP641	A63	TP651	G2	TP661	A63	TP671	G2	TP681	A63	TP691	G2	TP701	A63	TP711	G2	TP721	A63	TP731	G2	TP741	A63	TP751	G2	TP761	A63	TP771	G2	TP781	A63	TP791	G2	TP801	A63	TP811	G2	TP821	A63	TP831	G2	TP841	A63	TP851	G2	TP861	A63	TP871	G2	TP881	A63	TP891	G2	TP901	A63	TP911	G2	TP921	A63	TP931	G2	TP941	A63	TP951	G2	TP961	A63	TP971	G2	TP981	A63	TP991	G2	TP1001	A63																																
D3	R419	B7	R529	C2	R623	B1	R684	*P7	R74																																																																																																																																																																																									

SV-194A -B SIDE-
SUFFIX: -17



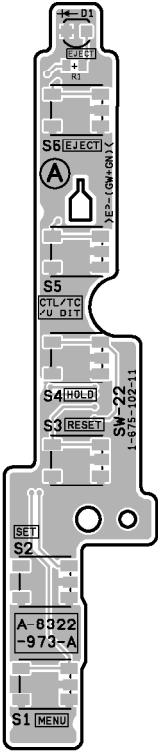
SW-21 -A SIDE-
SUFFIX: -11

C1	*A2	C30	A1	C31	D1	C32	A2	C33	R3	E1	R58	*F2	R85
C2	*A1	C34	C1	C35	C2	C36	*A2	C37	R4	*E2	R59	B1	R86
C3	*A2	C38	C2	C39	C3	C40	*A1	C41	R5	*E2	R60	*F2	R87
C4	*A1	C42	C3	C43	C4	C44	*A2	C45	R6	*E2	R61	*F2	R88
C5	*A2	C46	C4	C47	C5	C48	*A1	C49	R7	*E2	R62	*F2	R89
C6	*A1	C50	C5	C51	C6	C52	*A2	C53	R8	*E2	R63	*F2	R90
C7	*A2	C54	C6	C55	C7	C56	*A1	C57	R9	*E2	R64	*F2	R91
C8	*A1	C58	C7	C59	C8	C60	*A2	C61	R10	*E2	R65	*F2	R92
C9	*A2	C62	C8	C63	C9	C64	*A1	C65	R11	*E2	R66	*F2	R93
C10	*A1	C66	C9	C67	C10	C68	*A2	C69	R12	*E2	R67	*F2	R94
C11	*A2	C70	C10	C71	C11	C72	*A1	C73	R13	*E2	R68	*F2	R95
C12	*A1	C74	C11	C75	C12	C76	*A2	C77	R14	*E2	R69	*F2	R96
C13	*A2	C78	C12	C79	C13	C80	*A1	C81	R15	*E2	R70	*F2	R97
C14	*A1	C82	C13	C83	C14	C84	*A2	C85	R16	*E2	R71	*F2	R98
C15	*A2	C86	C14	C87	C15	C88	*A1	C89	R17	*E2	R72	*F2	R99
C16	*A1	C90	C15	C91	C16	C92	*A2	C93	R18	*E2	R73	*F2	R100
C17	*A2	C94	C16	C95	C17	C96	*A1	C97	R19	*E2	R74	*F2	R101
C18	*A1	C98	C17	C99	C18	C100	*A2	C101	R20	*E2	R75	*F2	R102
C19	*A2	C102	C18	C103	C19	C104	*A1	C105	R21	*E2	R76	*F2	R103
C20	*A1	C106	C19	C107	C20	C108	*A2	C109	R22	*E2	R77	*F2	R104
C21	*A2	C110	C20	C111	C21	C112	*A1	C113	R23	*E2	R78	*F2	R105
C22	*A1	C114	C21	C115	C22	C116	*A2	C117	R24	*E2	R79	*F2	R106
C23	*A2	C118	C22	C119	C23	C120	*A1	C121	R25	*E2	R80	*F2	R107
C24	*A1	C122	C23	C123	C24	C124	*A2	C125	R26	*E2	R81	*F2	R108
C25	*A2	C126	C24	C127	C25	C128	*A1	C129	R27	*E2	R82	*F2	R109
C26	*A1	C130	C25	C131	C26	C132	*A2	C133	R28	*E2	R83	*F2	R110
C27	*A2	C134	C26	C135	C27	C136	*A1	C137	R29	*E2	R84	*F2	R111
C28	*A1	C138	C27	C139	C28	C140	*A2	C141	R30	*E2	R85	*F2	R112

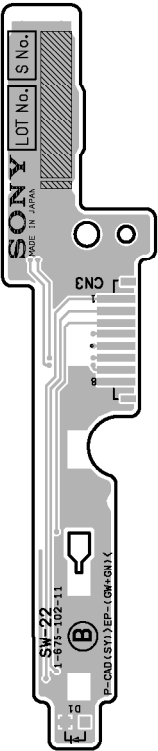


SW-21 -A SIDE-
SUFFIX: -12

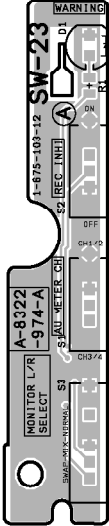
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C2	*A1	C34	C1	C35	C2	C36	*A2	C37	R4	*E2	R59	B1	R86
C3	*A2	C38	C2	C39	C3	C40	*A1	C41	R5	*E2	R60	*F2	R87
C4	*A1	C42	C3	C43	C4	C44	*A2	C45	R6	*E2	R61	*F2	R88
C5	*A2	C46	C4	C47	C5	C48	*A1	C49	R7	*E2	R62	*F2	R89
C6	*A1	C50	C5	C51	C6	C52	*A2	C53	R8	*E2	R63	*F2	R90
C7	*A2	C54	C6	C55	C7	C56	*A1	C57	R9	*E2	R64	*F2	R91
C8	*A1	C58	C7	C59	C8	C60	*A2	C61	R10	*E2	R65	*F2	R92
C9	*A2	C62	C8	C63	C9	C64	*A1	C65	R11	*E2	R66	*F2	R93
C10	*A1	C66	C9	C67	C10	C68	*A2	C69	R12	*E2	R67	*F2	R94
C11	*A2	C70	C10	C71	C11	C72	*A1	C73	R13	*E2	R68	*F2	R95
C12	*A1	C74	C11	C75	C12	C76	*A2	C77	R14	*E2	R69	*F2	R96
C13	*A2	C78	C12	C79	C13	C80	*A1	C81	R15	*E2	R70	*F2	R97
C14	*A1	C82	C13	C83	C14	C84	*A2	C85	R16	*E2	R71	*F2	R98
C15	*A2	C86	C14	C87	C15	C88	*A1	C89	R17	*E2	R72	*F2	R99
C16	*A1	C90	C15	C91	C16	C92	*A2	C93	R18	*E2	R73	*F2	R100
C17	*A2	C94	C16	C95	C17	C96	*A1	C97	R19	*E2	R74	*F2	R101
C18	*A1	C98	C17	C99	C18	C100	*A2	C101	R20	*E2	R75	*F2	R102
C19	*A2	C102	C18	C103	C19	C104	*A1	C105	R21	*E2	R76	*F2	R103
C20	*A1	C106	C19	C107	C20	C108	*A2	C109	R22	*E2	R77	*F2	R104
C21	*A2	C110	C20	C111	C21	C112	*A1	C113	R23	*E2	R78	*F2	R105
C22	*A1	C114	C21	C115	C22	C116	*A2	C117	R24	*E2	R79	*F2	R106
C23	*A2	C118	C22	C119	C23	C120	*A1	C121	R25	*E2	R80	*F2	R107
C24	*A1	C122	C23	C123	C24	C124	*A2	C125	R26	*E2	R81	*F2	R108
C25	*A2	C126	C24	C127	C25	C128	*A1	C129	R27	*E2	R82	*F2	R109
C26	*A1	C130	C25	C131	C26	C132	*A2	C133	R28	*E2	R83	*F2	R110
C27	*A2	C134	C26	C135	C27	C136	*A1	C137	R29	*E2	R84	*F2	R111
C28	*A1	C138	C27	C139	C28	C140	*A2	C141	R30	*E2	R85	*F2	R112



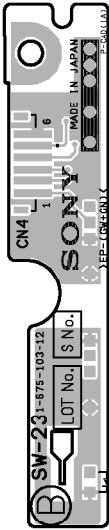
SW-22 -A SIDE-
SUFFIX: -11



SW-22 -B SIDE-
SUFFIX: -11



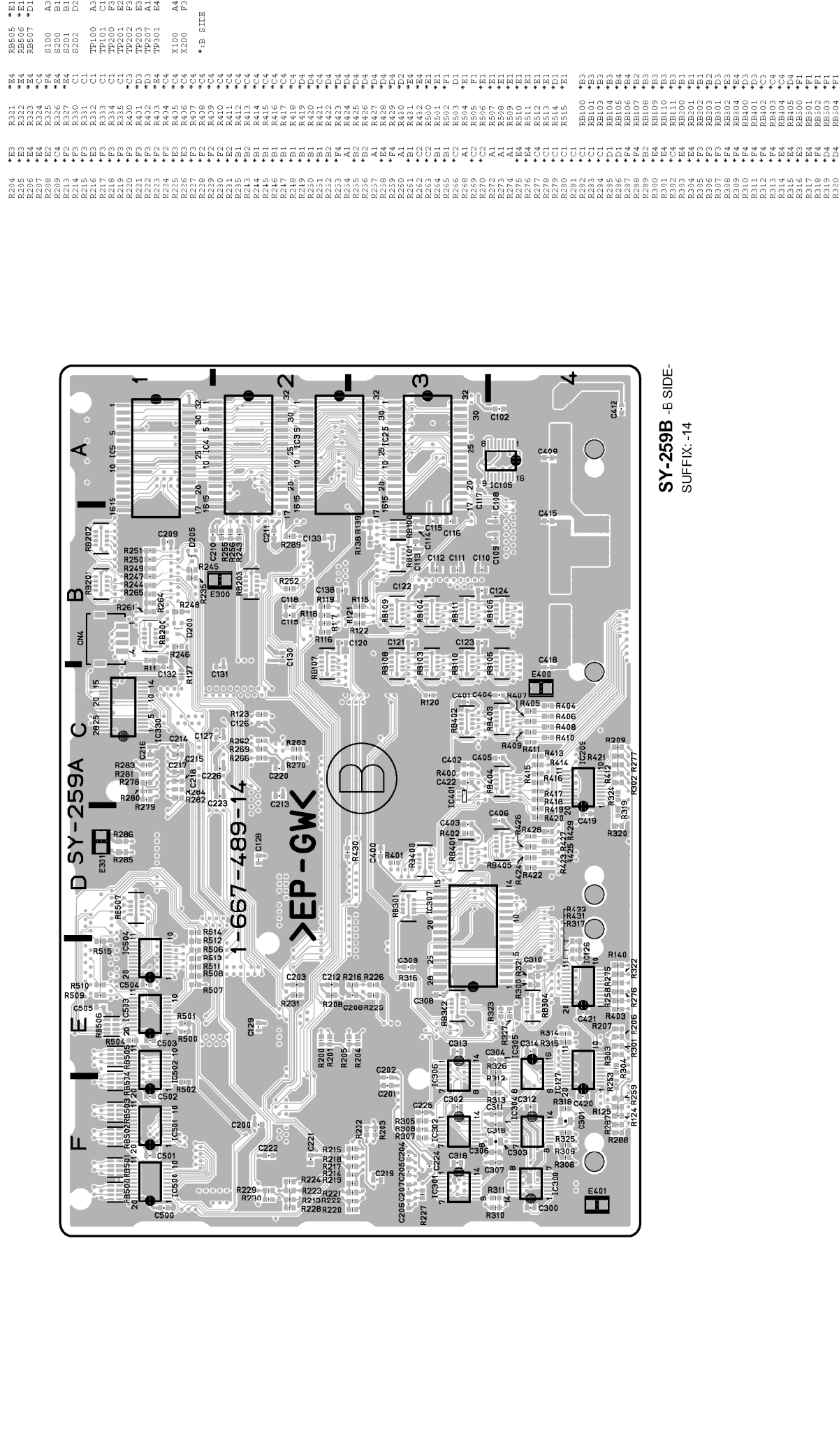
SW-23 -A SIDE-
SUFFIX: -12



SW-23 -B SIDE-
SUFFIX: -12

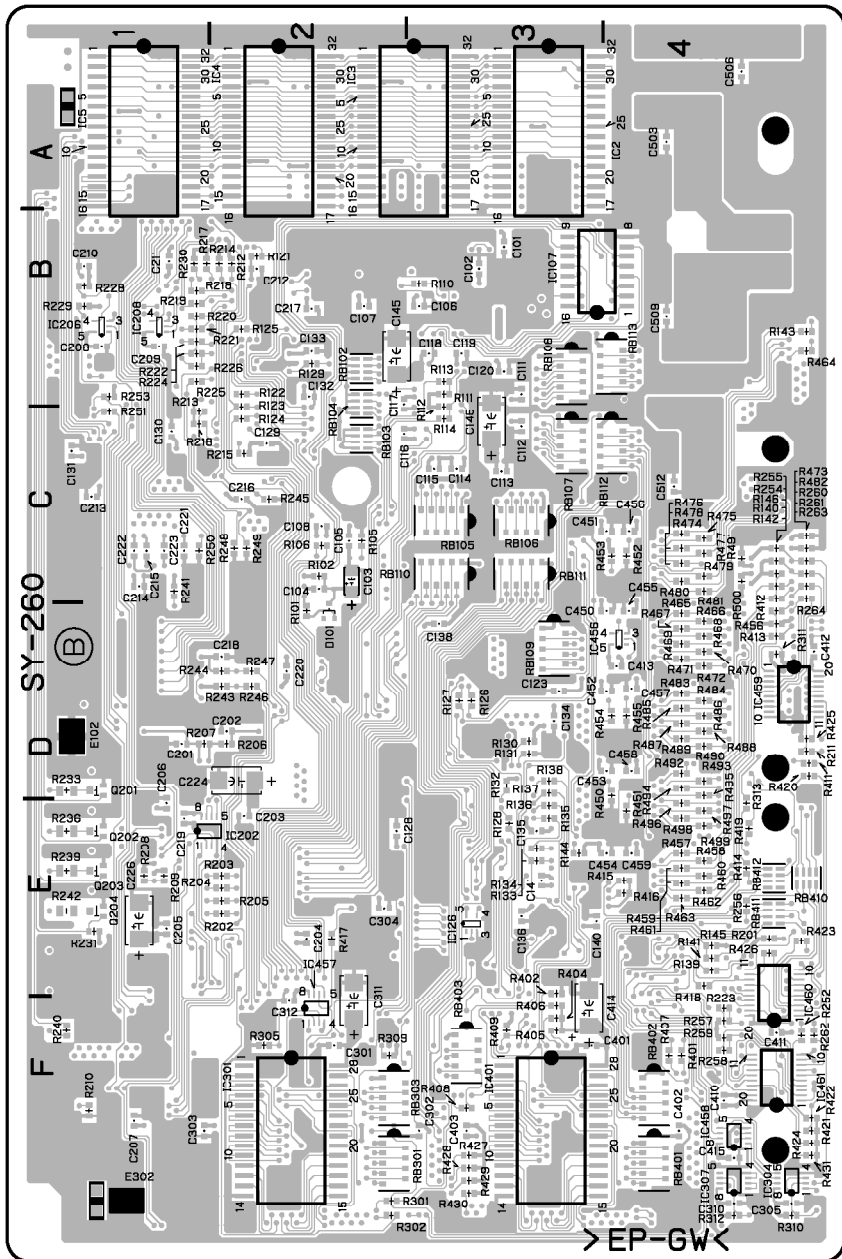
SY-259B (1-667-489-114)

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C2	A3	C401	C2	IC212	F2
C3	A2	C402	C3	IC223	F3
C4	A4	C403	C4	IC224	F3
C5	A1	C404	C5	IC225	F2
C10	A3	C405	C10	IC226	F2
C11	A4	C406	C11	IC227	F3
C12	A3	C407	C12	IC228	F4
C13	A4	C408	C13	IC229	C4
C14	A4	C409	C14	IC230	C2
C15	A4	C410	C15	IC231	C2
C16	A4	C411	C16	IC232	C1
C17	A4	C412	C17	IC233	C1
C18	A4	C413	C18	IC234	C2
C19	A4	C414	C19	IC235	F4
C20	A4	C415	C20	IC236	F4
C21	A4	C416	C21	IC237	F4
C22	A4	C417	C22	IC238	F4
C23	A4	C418	C23	IC239	F4
C24	A4	C419	C24	IC240	C3
C25	A4	C420	C25	IC241	C3
C26	A4	C421	C26	IC242	C3
C27	A4	C422	C27	IC243	C4
C28	A4	C423	C28	IC244	D4
C29	A4	C424	C29	IC245	F1
C30	A4	C425	C30	IC246	F1
C31	A4	C426	C31	IC247	F1
C32	A4	C427	C32	IC248	F1
C33	A4	C428	C33	IC249	F1
C34	A4	C429	C34	IC250	F1
C35	A4	C430	C35	IC251	F1
C36	A4	C431	C36	IC252	F1
C37	A4	C432	C37	IC253	F1
C38	A4	C433	C38	IC254	F1
C39	A4	C434	C39	IC255	F1
C40	A4	C435	C40	IC256	F1
C41	A4	C436	C41	IC257	F1
C42	A4	C437	C42	IC258	F1
C43	A4	C438	C43	IC259	F1
C44	A4	C439	C44	IC260	F1
C45	A4	C440	C45	IC261	F1
C46	A4	C441	C46	IC262	F1
C47	A4	C442	C47	IC263	F1
C48	A4	C443	C48	IC264	F1
C49	A4	C444	C49	IC265	F1
C50	A4	C445	C50	IC266	F1
C51	A4	C446	C51	IC267	F1
C52	A4	C447	C52	IC268	F1
C53	A4	C448	C53	IC269	F1
C54	A4	C449	C54	IC270	F1
C55	A4	C450	C55	IC271	F1
C56	A4	C451	C56	IC272	F1
C57	A4	C452	C57	IC273	F1
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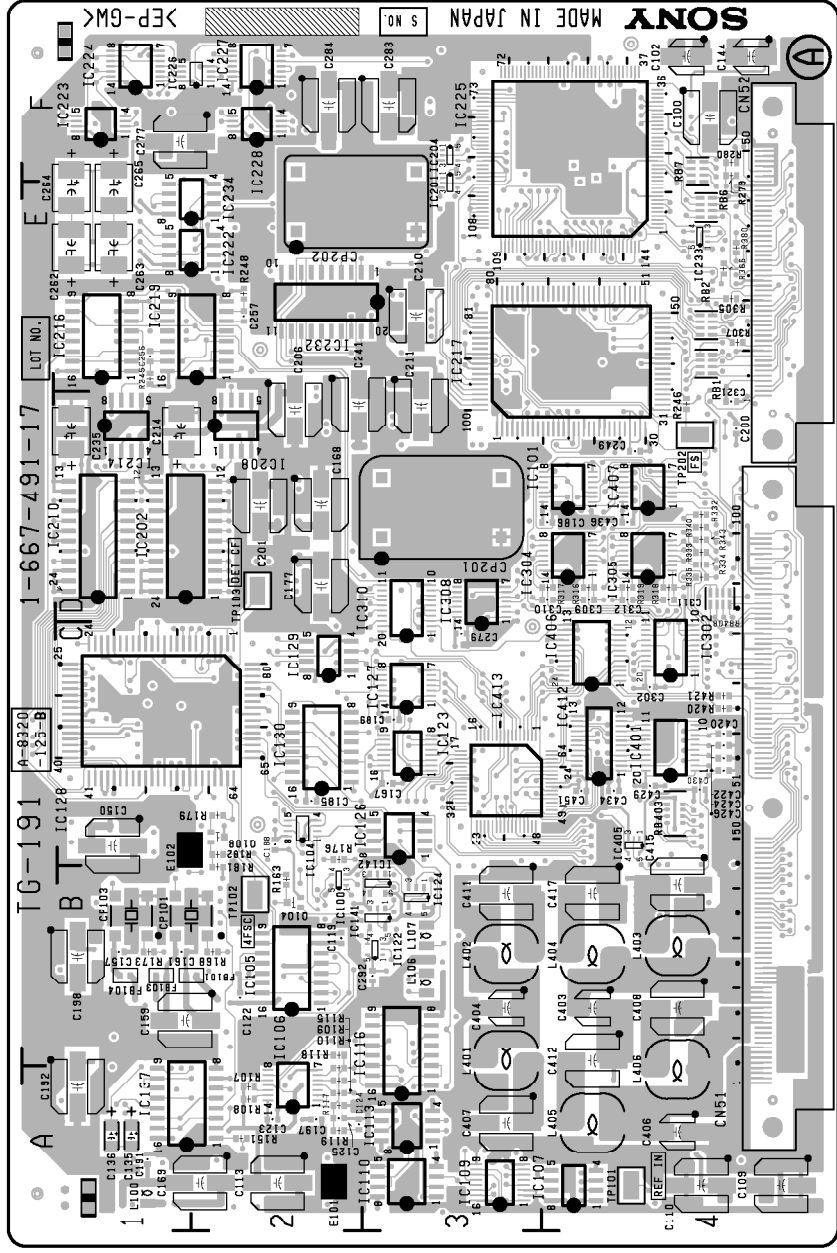
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C10	*B3	C50	A1	IC318	F3	R230	B1	R468	*D4
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C12	*B3	C52	*A4	IC320	C3	R232	D1	R470	*D4
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C16	*B3	C56	A4	IC324	D4	R236	E1	R474	*D4
C17	*B3	C57	A4	IC325	D4	R237	E1	R475	*D4
C18	*B3	C58	B4	IC326	*F2	R238	E1	R476	*D4
C19	*B3	C59	B4	IC327	*F2	R239	E1	R477	*D4
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C21	*B3	C61	C4	IC329	*F4	R241	C1	R479	*D4
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C27	*B3	C67	C4	IC335	*F4	R247	C2	R485	*D4
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C37	*B3	C77	C4	IC345	*F4	R257	C2	R495	*D4
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C42	*B3	C82	C4	IC350	*F4	R262	C2	R500	*D4
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C44	*B3	C84	C4	IC352	*F4	R264	C2	R502	*D4
C45	*B3	C85	C4	IC353	*F4	R265	C2	R503	*D4
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C47	*B3	C87	C4	IC355	*F4	R267	C2	R505	*D4
C48	*B3	C88	C4	IC356	*F4	R268	C2	R506	*D4
C49	*B3	C89	C4	IC357	*F4	R269	C2	R507	*D4
C50	*B3	C90	C4	IC358	*F4	R270	C2	R508	*D4
C51	*B3	C91	C4	IC359	*F4	R271	C2	R509	*D4
C52	*B3	C92	C4	IC360	*F4	R272	C2	R510	*D4
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C54	*B3	C94	C4	IC362	*F4	R274	C2	R512	*D4
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C56	*B3	C96	C4	IC364	*F4	R276	C2	R514	*D4
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C59	*B3	C99	C4	IC367	*F4	R279	C2	R517	*D4
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C68	*B3	C108	C4	IC376	*F4	R288	C2	R526	*D4
C69	*B3	C109	C4	IC377	*F4	R289	C2	R527	*D4
C70	*B3	C110	C4	IC378	*F4	R290	C2	R528	*D4
C71	*B3	C111	C4	IC379	*F4	R291	C2	R529	*D4
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C73	*B3	C113	C4	IC381	*F4	R293	C2	R531	*D4
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C75	*B3	C115	C4	IC383	*F4	R295	C2	R533	*D4
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C78	*B3	C118	C4	IC386	*F4	R298	C2	R536	*D4
C79	*B3	C119	C4	IC387	*F4	R299	C2	R537	*D4
C80	*B3	C120	C4	IC388	*F4	R300	C2	R538	*D4
C81	*B3	C121	C4	IC389	*F4	R301	C2	R539	*D4
C82	*B3	C122	C4	IC390	*F4	R302	C2	R540	*D4
C83	*B3	C123	C4	IC391	*F4	R303	C2	R541	*D4
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C85	*B3	C125	C4	IC393	*F4	R305	C2	R543	*D4
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C87	*B3	C127	C4	IC395	*F4	R307	C2	R545	*D4
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C92	*B3	C132	C4	IC400	*F4	R312	C2	R550	*D4
C93	*B3	C133	C4	IC401	*F4	R313	C2	R551	*D4
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C96	*B3	C136	C4	IC404	*F4	R316	C2	R554	*D4
C97	*B3	C137	C4	IC405	*F4	R317	C2	R555	*D4
C98	*B3	C138	C4	IC406	*F4	R318	C2	R556	*D4
C99	*B3	C139	C4	IC407	*F4	R319	C2	R557	*D4
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C102	*B3	C142	C4	IC410	*F4	R322	C2	R560	*D4
C103	*B3	C143	C4	IC411	*F4	R323	C2	R561	*D4
C104	*B3	C144	C4	IC412	*F4	R324	C2	R562	*D4
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C106	*B3	C146	C4	IC414	*F4	R326	C2	R564	*D4
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C108	*B3	C148	C4	IC416	*F4	R328	C2	R566	*D4
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C111	*B3	C151	C4	IC419	*F4	R331	C2	R569	*D4
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C113	*B3	C153	C4	IC421	*F4	R333	C2	R571	*D4
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C117	*B3	C157	C4	IC425	*F4	R337	C2	R575	*D4
C118	*B3	C158	C4	IC426	*F4	R338	C2	R576	*D4
C119	*B3	C159	C4	IC427	*F4	R339	C2	R577	*D4
C120	*B3	C160	C4	IC428	*F4	R340	C2	R578	*D4
C121	*B3	C161	C4	IC429	*F4	R341	C2	R579	*D4
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C126	*B3	C166	C4	IC434	*F4	R346	C2	R584	*D4
C127	*B3	C167	C4	IC435	*F4	R347	C2	R585	*D4
C128	*B3	C168	C4	IC436	*F4	R348	C2	R586	*D4
C129	*B3	C169	C4	IC437	*F4	R349	C2	R587	*D4
C130	*B3	C170	C4	IC438	*F4	R350	C2	R588	*D4
C131	*B3	C171	C4	IC439	*F4	R351	C2	R589	*D4
C132	*B3	C172	C4	IC440	*F4	R352	C2	R590	*D4
C133	*B3	C173	C4	IC441	*F4	R353	C2	R591	*D4
C134	*B3	C174	C4	IC442	*F4	R354	C2	R592	*D4
C135	*B3	C175	C4	IC443	*F4	R355	C2	R593	*D4
C136	*B3	C176	C4	IC444	*F4	R356	C2	R594	*D4
C137	*B3	C177	C4	IC445	*F4	R357	C2	R595	*D4
C138	*B3	C178	C4	IC446	*F4	R358	C2	R596	*D4
C139	*B3	C179	C4	IC447	*F4	R359	C2	R597	*D4
C140	*B3	C180	C4	IC448	*F4	R360	C2	R598	*D4
C141	*B3	C181	C4	IC449	*F4	R361	C2	R599	*D4
C142	*B3	C182	C4	IC450	*F4	R362	C2	R600	*D4
C143	*B3	C183	C4	IC451	*F4	R363	C2	R601	*D4
C144	*B3	C184	C4	IC452	*F4	R364	C2	R602	*D4
C145	*B3	C185	C4	IC453	*F4	R365	C2	R603	*D4
C146	*B3	C186	C4	IC454	*F4	R366	C2	R604	*D4
C147	*B3	C187	C4	IC455	*F4	R367	C2	R605	*D4
C148	*B3	C188	C4	IC456	*F4	R368	C2	R606	*D4
C149	*B3	C189	C4	IC457	*F4	R369	C2	R607	*D4
C150	*B3	C190	C4	IC458	*F4	R370	C2	R608	*D4
C151	*B3	C191	C4	IC459	*F4	R371	C2	R609	*D4
C152	*B3	C192	C4	IC460	*F4	R372	C2	R610	*D4
C153	*B3	C193	C4	IC461	*F4	R373	C2	R611	*D4
C154	*B3	C194	C4	IC462	*F4	R374	C2	R612	*D4
C155	*B3	C195	C4	IC463	*F4	R375	C2	R613	*D4
C156	*B3	C196	C4	IC464	*F4	R376	C2	R614	*D4
C157	*B3	C197	C4	IC465	*F4	R377	C2	R615	*D4
C158	*B3	C198	C4	IC466	*F4	R378	C2	R616	*D4
C159	*B3	C199	C4	IC467	*F4	R379	C2	R617	*D4
C160	*B3	C200	C4	IC468	*F4	R380	C2	R618	*D4
C161	*B3	C201	C4	IC469	*F4	R381	C2	R619	*D4
C162	*B3	C202	C4	IC470	*F4	R382	C2	R620	*D4
C163	*B3	C203	C4	IC471	*F4	R383	C2	R621	*D4
C164	*B3	C204</							



SY-260 -B SIDE-
SUFFIX: -12

TG-191(1-667-491-17)

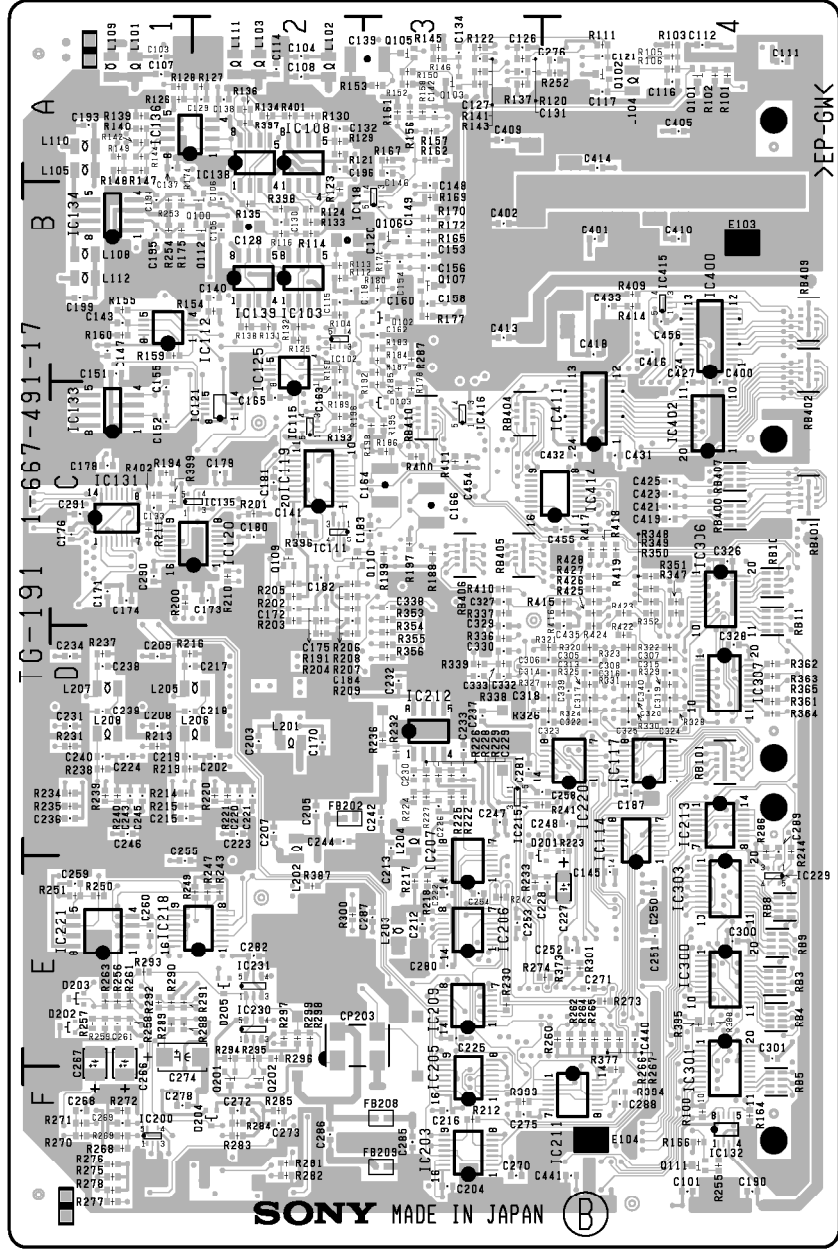
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C104	*A2	C197	A2	C289	*D4	D102	*B3	IC231	*E2
C105	*B2	C198	B1	C290	*C1	D103	*C3	IC232	E3
C106	*B2	C199	*B1	C291	*C1	D201	E3	IC233	B4
C108	*A1	C200	D1	C292	*C1	D202	E1	IC234	*B2
C109	A4	C201	D1	C293	*C1	D203	E1	IC235	*B2
C110	A4	C202	*D2	C301	*B4	D204	*F2	IC301	*B4
C111	A4	C203	*D2	C302	*C4	D205	*E2	IC302	*C4
C112	A4	C204	*F3	C303	*D4	E101	A2	IC303	*B4
C113	A4	C205	*D4	C305	*D4	E102	C	IC305	*D4
C114	A4	C206	*D4	C306	*D4	E103	C	IC306	*D4
C115	A4	C207	*D2	C308	*D4	E104	*F4	IC307	D3
C116	A4	C208	*D1	C310	*D4	E105	*F4	IC308	D3
C117	A4	C209	*D1	C311	D4	E106	*F4	IC310	*C3
C118	A4	C210	*A4	C312	D4	FB1J1	B2	IC400	*B4
C119	A4	C211	*A4	C313	D4	FB1J2	B1	IC401	*B4
C120	*B2	C212	*F3	C314	*D4	FB2J2	D2	IC402	*C4
C121	*A4	C213	*D3	C315	*D4	FB2J3	D1	IC403	*B4
C122	*A4	C214	*D1	C316	*D4	FB2J4	*F3	IC405	*C4
C123	A4	C215	*D1	C317	*D4	FB2J5	*F3	IC406	C4
C124	A4	C216	*F3	C318	*D4	FB2J6	*F3	IC407	D4
C125	A4	C217	*F3	C319	*D4	FB2J7	*F3	IC411	*B4
C126	A4	C218	*D1	C320	*D4	FB2J8	*F3	IC412	*B4
C127	A4	C219	*D1	C321	*D4	IC1J0	B2	IC413	C3
C128	A4	C220	*D2	C322	*D4	IC1J1	B2	IC414	C3
C129	A4	C221	*D2	C323	*D4	IC1J2	*B2	IC415	C3
C130	A4	C222	*D2	C324	*D4	IC1J3	*B2	IC416	C3
C131	A4	C223	*D2	C325	*D4	IC1J4	C2	IC417	C3
C132	A4	C224	*D2	C326	*D4	IC1J5	C2	IC418	C3
C133	A4	C225	*E3	C327	*D4	IC1J6	C2	IC419	C3
C134	A4	C226	*D3	C328	*D4	IC1J7	C2	IC420	C3
C135	A4	C227	*E4	C329	*D4	IC1J8	C2	IC421	C3
C136	A4	C228	*E4	C330	*D4	IC1J9	C2	IC422	C3
C137	A4	C229	*A1	C331	*D4	IC1J0	C2	IC423	C3
C138	A4	C230	*D3	C332	*D3	IC1J1	A3	IC424	C3
C139	A4	C231	*D3	C333	*D3	IC1J2	A3	IC425	C3
C140	A4	C232	*D3	C334	*D3	IC1J3	A3	IC426	C3
C141	A4	C233	*D3	C335	*D3	IC1J4	A3	IC427	C3
C142	A4	C234	*D3	C336	*D3	IC1J5	A3	IC428	C3
C143	A4	C235	*D1	C337	*D3	IC1J6	A3	IC429	C3
C144	A4	C236	*D1	C338	*D3	IC1J7	A3	IC430	C3
C145	A4	C237	*D1	C339	*D3	IC1J8	A3	IC431	C3
C146	A4	C238	*D1	C340	*D3	IC1J9	A3	IC432	C3
C147	A4	C239	*D1	C341	*D3	IC1J0	A3	IC433	C3
C148	A4	C240	*D1	C342	*D3	IC1J1	A3	IC434	C3
C149	A4	C241	*D1	C343	*D3	IC1J2	A3	IC435	C3
C150	A4	C242	*D3	C344	*D3	IC1J3	A3	IC436	A2
C151	A4	C243	*D1	C345	*D3	IC1J4	A3	IC437	A2
C152	A4	C244	*D1	C346	*D3	IC1J5	A3	IC438	A2
C153	A4	C245	*D1	C347	*D3	IC1J6	A3	IC439	A2
C154	A4	C246	*D1	C348	*D3	IC1J7	A3	IC440	A2
C155	A4	C247	*D1	C349	*D3	IC1J8	A3	IC441	A2
C156	A4	C248	*D4	C350	*D3	IC1J9	A3	IC442	A2
C157	A4	C249	*D4	C351	*D3	IC1J0	A3	IC443	A2
C158	A4	C250	*D4	C352	*D3	IC1J1	A3	IC444	A2
C159	A4	C251	*D4	C353	*D3	IC1J2	A3	IC445	A2
C160	A4	C252	*E4	C354	*D3	IC1J3	A3	IC446	A2
C161	A4	C253	*E3	C355	*D3	IC1J4	A3	IC447	A2
C162	A4	C254	*E3	C356	*D3	IC1J5	A3	IC448	A2
C163	A4	C255	*E3	C357	*D3	IC1J6	A3	IC449	A2
C164	A4	C256	*E3	C358	*D3	IC1J7	A3	IC450	A2
C165	A4	C257	E2	C359	*D3	IC1J8	A3	IC451	A2
C166	A4	C258	*D3	C360	*D3	IC1J9	A3	IC452	A2
C167	A4	C259	*E1	C361	*D3	IC1J0	A3	IC453	A2
C168	A4	C260	*E1	C362	*D3	IC1J1	A3	IC454	A2
C169	A4	C261	*E1	C363	*D3	IC1J2	A3	IC455	A2
C170	A4	C262	E1	C364	*D3	IC1J3	A3	IC456	A2
C171	A4	C263	E1	C365	*D3	IC1J4	A3	IC457	A2
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C173	A4	C265	E1	C367	*D3	IC1J6	A3	IC459	A2
C174	A4	C266	E1	C368	*D3	IC1J7	A3	IC460	A2
C175	A4	C267	E1	C369	*D3	IC1J8	A3	IC461	A2
C176	A4	C268	E1	C370	*D3	IC1J9	A3	IC462	A2
C177	A4	C269	E1	C371	*D3	IC1J0	A3	IC463	A2
C178	A4	C270	E1	C372	*D3	IC1J1	A3	IC464	A2
C179	A4	C271	E1	C373	*D3	IC1J2	A3	IC465	A2
C180	A4	C272	E1	C374	*D3	IC1J3	A3	IC466	A2
C181	A4	C273	E1	C375	*D3	IC1J4	A3	IC467	A2
C182	A4	C274	E1	C376	*D3	IC1J5	A3	IC468	A2
C183	A4	C275	E1	C377	*D3	IC1J6	A3	IC469	A2
C184	A4	C276	E1	C378	*D3	IC1J7	A3	IC470	A2
C185	A4	C277	E1	C379	*D3	IC1J8	A3	IC471	A2
C186	A4	C278	E1	C380	*D3	IC1J9	A3	IC472	A2
C187	A4	C279	E1	C381	*D3	IC1J0	A3	IC473	A2
C188	A4	C280	E3	C382	*D3	IC1J1	A3	IC474	A2
C189	A4	C281	E3	C383	*D3	IC1J2	A3	IC475	A2
C190	A4	C282	E3	C384	*D3	IC1J3	A3	IC476	A2
C191	A4	C283	E3	C385	*D3	IC1J4	A3	IC477	A2
C192	A4	C284	E3	C386	*D3	IC1J5	A3	IC478	A2
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TG-191-A SIDE-SUFFIX: -17

TG-191 TG-191

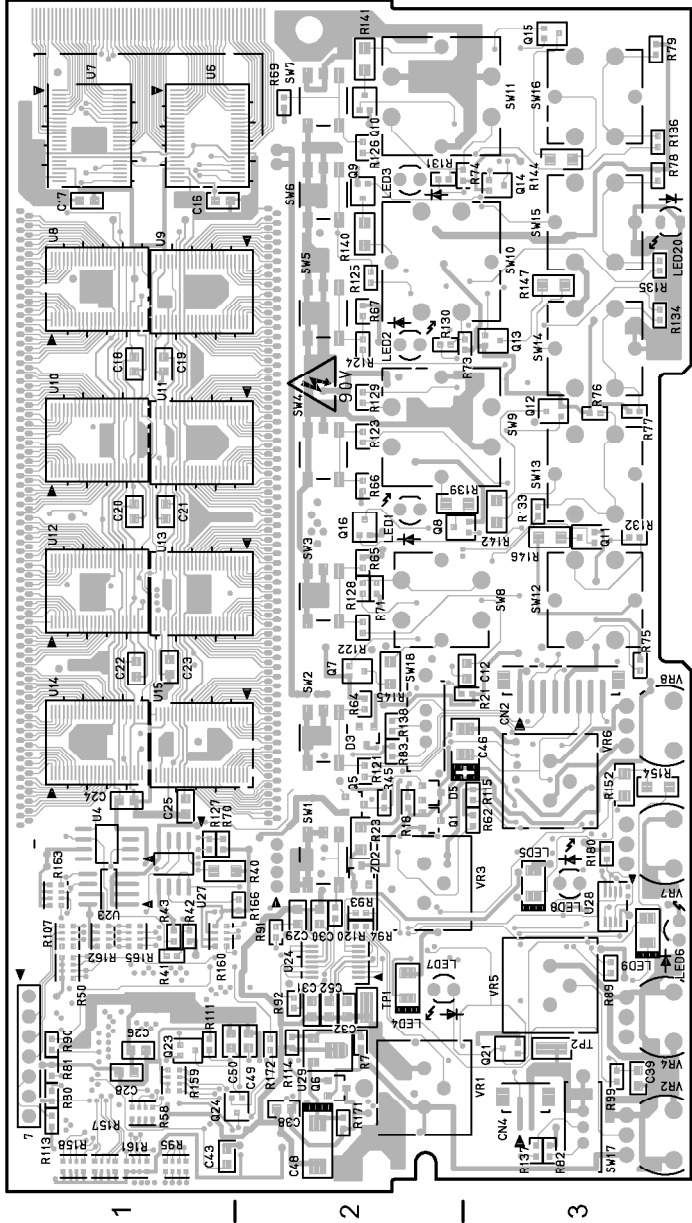
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R119	A2	R211	*C1	R333	E4	RE403	*C4
R120	*A3	R212	*F3	R334	D4	RE404	*C3
R121	*A3	R213	*D1	R335	D4	RE405	*C3
R122	*A3	R214	*D1	R336	D4	RE406	*C3
R123	*A3	R215	*D1	R337	D4	RE407	*C3
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R125	*A2	R217	*D1	R339	D4	RE409	*B4
R126	*A1	R218	*E3	R340	D4	RE410	*C3
R127	*A2	R219	*D1	R341	D4	RE411	*C3
R128	*A1	R220	*D2	R342	D4	RE412	*C4
R129	*A1	R221	*D2	R343	D4	RE413	*C4
R130	*A2	R222	*D3	R344	D4	RE414	*C4
R131	*B2	R223	*D4	R345	D4	RE415	*C4
R132	*B2	R224	*D3	R346	D4	RE416	*C4
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R134	*B2	R226	*D3	R348	D4	RE418	*C4
R135	*B2	R227	*D3	R349	D4	RE419	*C4
R136	*A2	R228	*D3	R350	D4	RE420	*C4
R137	*A3	R229	*D3	R351	D4	RE421	*C4
R138	*B2	R230	*E3	R352	D4	RE422	*C4
R139	*A1	R231	*D1	R353	D4	RE423	*C4
R140	*A1	R232	*D1	R354	D4	RE424	*C4
R141	*A3	R233	*E3	R355	D4	RE425	*C4
R142	*A1	R234	*D1	R356	D4	RE426	*C4
R143	*A3	R235	*D1	R357	D4	RE427	*C4
R144	*A1	R236	*D3	R358	D4	RE428	*C4
R145	*A1	R237	*D1	R359	D4	RE429	*C4
R146	*A3	R238	*D1	R360	D4	RE430	*C4
R147	*A1	R239	*D1	R361	D4	RE431	*C4
R148	*A1	R240	*D1	R362	D4	RE432	*C4
R149	*A1	R241	*D3	R363	D4	RE433	*C4
R150	*A3	R242	*D3	R364	D4	RE434	*C4
R151	*A3	R243	*D3	R365	D4	RE435	*C4
R152	*A3	R244	*D3	R366	D4	RE436	*C4
R153	*A3	R245	*D3	R367	D4	RE437	*C4
R154	*B2	R246	*D4	R368	D4	RE438	*C4
R155	*B1	R247	*D3	R369	D4	RE439	*C4
R156	*B1	R248	*D3	R370	D4	RE440	*C4
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R158	*A3	R250	*D3	R372	D4	RE442	*C4
R159	*B1	R251	*D3	R373	D4	RE443	*C4
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R161	*B1	R253	*D4	R375	D4	RE445	*C4
R162	*B1	R254	*D4	R376	D4	RE446	*C4
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R170	*B3	R262	*E4	R384	D4	RE454	*C4
R171	*B3	R263	*E1	R385	D4	RE455	*C4
R172	*B3	R264	*E1	R386	D4	RE456	*C4
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R174	*B1	R266	*E1	R388	D4	RE458	*C4
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R176	*C2	R268	*E1	R390	D4	RE460	*C4
R177	*B3	R269	*E1	R391	D4	RE461	*C4
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R179	*C2	R271	*E1	R393	D4	RE463	*C4
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R181	*B2	R273	*E4	R395	D4	RE465	*C4
R182	*C2	R274	*E4	R396	D4	RE466	*C4
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R192	*C3	R284	*E2	R406	D4	RE476	*C4
R193	*C2	R285	*E2	R407	D4	RE477	*C4
R194	*C3	R286	*E2	R408	D4	RE478	*C4
R195	*C3	R287	*E2	R409	D4	RE479	*C4
R196	*C2	R288	*E1	R410	D4	RE480	*C4
R197	*C3	R289	*E1	R411	D4	RE481	*C4
R198	*C3	R290	*E1	R412	D4	RE482	*C4
R199	*C3	R291	*E1	R413	D4	RE483	*C4
R200	*C3	R292	*E1	R414	D4	RE484	*C4
R201	*C2	R293	*E1	R415	D4	RE485	*C4
R202	*C2	R294	*E2	R416	D4	RE486	*C4
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R205	*C2	R297	*E2	R419	D4	RE489	*C4
R206	*C2	R298	*E2	R420	D4	RE490	*C4
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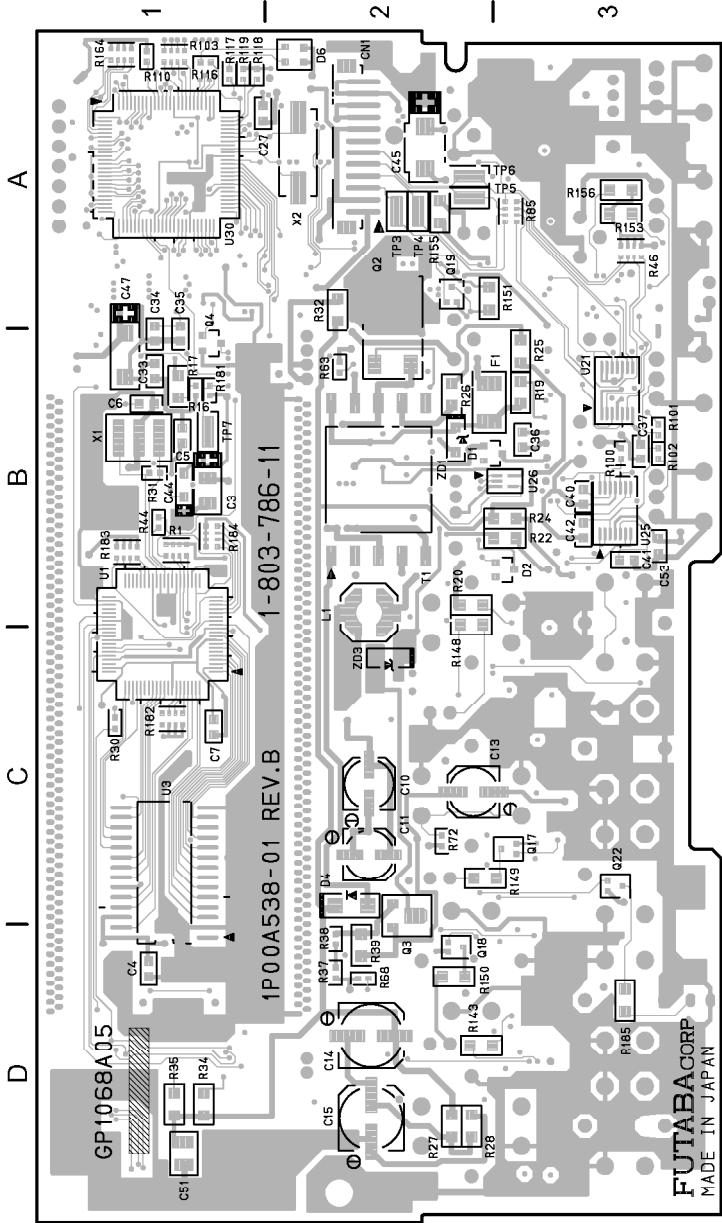
TG-191 -B SIDE-
SUFFIX: -17

VFD-1-803-786-111

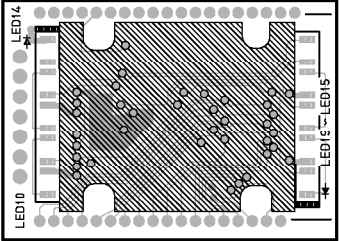
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C7	*C1	R18	B2	R139
C10	*C2	R19	B2	R140
C11	*C2	R20	B2	R141
C12	*C2	R21	B2	R142
C13	*C2	R22	B2	R143
C14	*C2	R23	B2	R144
C15	*C2	R24	B2	R145
C16	*C2	R25	B2	R146
C17	*C2	R26	B2	R147
C18	*C1	R27	*D2	R148
C19	*C1	R28	*D2	R149
C20	*C1	R29	*C1	R150
C21	*C1	R30	*C1	R151
C22	*C1	R31	*C1	R152
C23	*C1	R32	*C1	R153
C24	*C1	R33	*D1	R154
C25	*C1	R34	*D1	R155
C26	*C1	R35	*D2	R156
C27	*C1	R36	*D2	R157
C28	*C1	R37	*D2	R158
C29	*C1	R38	*D2	R159
C30	*C1	R39	*D2	R160
C31	*C1	R40	*D2	R161
C32	*C1	R41	*D2	R162
C33	*C1	R42	*D2	R163
C34	*C1	R43	*D2	R164
C35	*C1	R44	*D2	R165
C36	*C1	R45	*D2	R166
C37	*C1	R46	*D2	R167
C38	*C1	R47	*D2	R168
C39	*C1	R48	*D2	R169
C40	*C1	R49	*D2	R170
C41	*C1	R50	*D2	R171
C42	*C1	R51	*D2	R172
C43	*C1	R52	*D2	R173
C44	*C1	R53	*D2	R174
C45	*C1	R54	*D2	R175
C46	*C1	R55	*D2	R176
C47	*C1	R56	*D2	R177
C48	*C1	R57	*D2	R178
C49	*C1	R58	*D2	R179
C50	*C1	R59	*D2	R180
C51	*C1	R60	*D2	R181
C52	*C1	R61	*D2	R182
C53	*C1	R62	*D2	R183
C54	*C1	R63	*D2	R184
C55	*C1	R64	*D2	R185
C56	*C1	R65	*D2	R186
C57	*C1	R66	*D2	R187
C58	*C1	R67	*D2	R188
C59	*C1	R68	*D2	R189
C60	*C1	R69	*D2	R190
C61	*C1	R70	*D2	R191
C62	*C1	R71	*D2	R192
C63	*C1	R72	*D2	R193
C64	*C1	R73	*D2	R194
C65	*C1	R74	*D2	R195
C66	*C1	R75	*D2	R196
C67	*C1	R76	*D2	R197
C68	*C1	R77	*D2	R198
C69	*C1	R78	*D2	R199
C70	*C1	R79	*D2	R200
C71	*C1	R80	*D2	R201
C72	*C1	R81	*D2	R202
C73	*C1	R82	*D2	R203
C74	*C1	R83	*D2	R204
C75	*C1	R84	*D2	R205
C76	*C1	R85	*D2	R206
C77	*C1	R86	*D2	R207
C78	*C1	R87	*D2	R208
C79	*C1	R88	*D2	R209
C80	*C1	R89	*D2	R210
C81	*C1	R90	*D2	R211
C82	*C1	R91	*D2	R212
C83	*C1	R92	*D2	R213
C84	*C1	R93	*D2	R214
C85	*C1	R94	*D2	R215
C86	*C1	R95	*D2	R216
C87	*C1	R96	*D2	R217
C88	*C1	R97	*D2	R218
C89	*C1	R98	*D2	R219
C90	*C1	R99	*D2	R220
C91	*C1	R100	*D2	R221
C92	*C1	R101	*D2	R222
C93	*C1	R102	*D2	R223
C94	*C1	R103	*D2	R224
C95	*C1	R104	*D2	R225
C96	*C1	R105	*D2	R226
C97	*C1	R106	*D2	R227
C98	*C1	R107	*D2	R228
C99	*C1	R108	*D2	R229
C100	*C1	R109	*D2	R230
C101	*C1	R110	*D2	R231
C102	*C1	R111	*D2	R232
C103	*C1	R112	*D2	R233
C104	*C1	R113	*D2	R234
C105	*C1	R114	*D2	R235
C106	*C1	R115	*D2	R236
C107	*C1	R116	*D2	R237
C108	*C1	R117	*D2	R238
C109	*C1	R118	*D2	R239
C110	*C1	R119	*D2	R240
C111	*C1	R120	*D2	R241
C112	*C1	R121	*D2	R242
C113	*C1	R122	*D2	R243
C114	*C1	R123	*D2	R244
C115	*C1	R124	*D2	R245
C116	*C1	R125	*D2	R246
C117	*C1	R126	*D2	R247
C118	*C1	R127	*D2	R248
C119	*C1	R128	*D2	R249
C120	*C1	R129	*D2	R250
C121	*C1	R130	*D2	R251
C122	*C1	R131	*D2	R252
C123	*C1	R132	*D2	R253
C124	*C1	R133	*D2	R254
C125	*C1	R134	*D2	R255



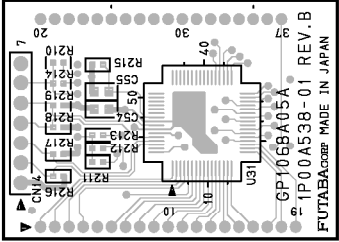
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SUFFIX: -11



VFD -B SIDE-
SUFFIX: -11



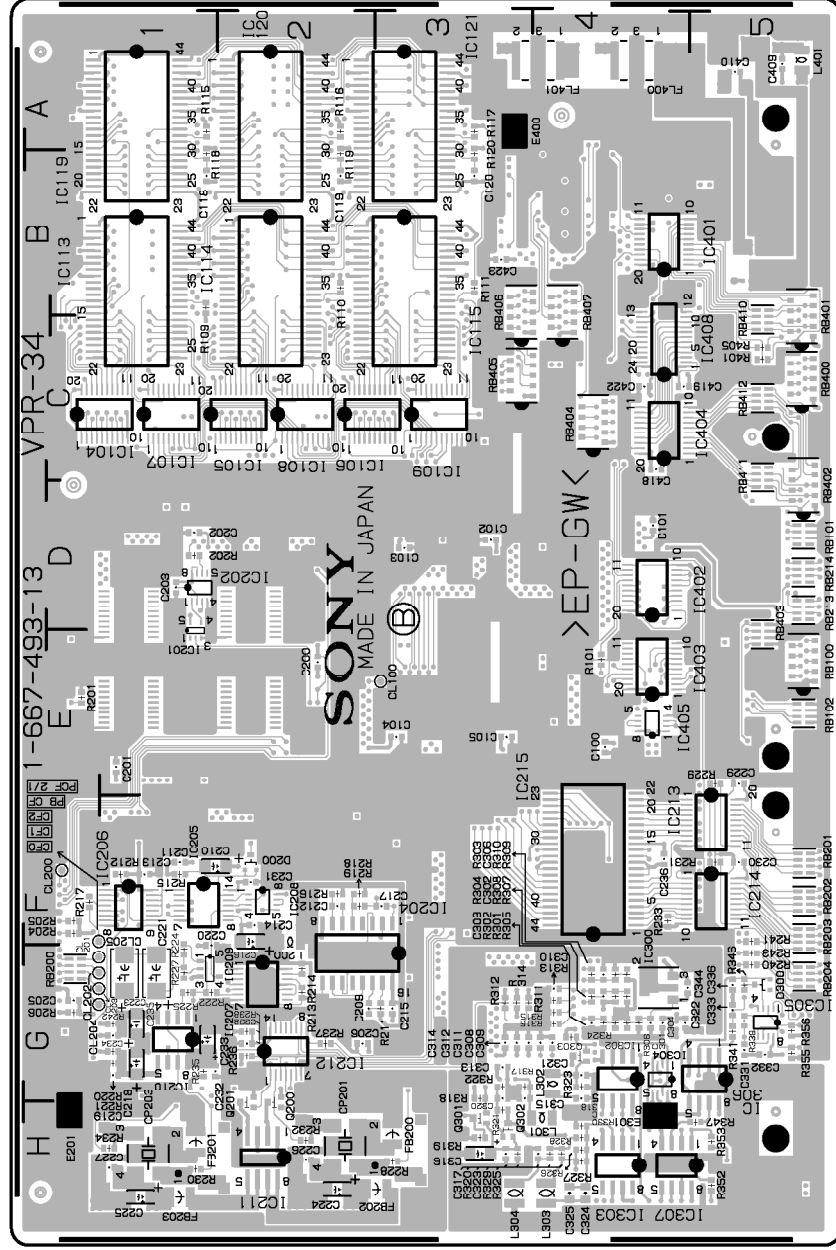
LCD -B SIDE-
SUFFIX: -11



LCD -A SIDE-
SUFFIX: -11

VPR-34(1-667-493-13)

C100	*54	C334	H5	IC222	*01	R215	*F2	R402	D4
C101	*55	C335	*35	IC223	*02	R216	*F3	R403	D5
C102	*56	C336	*36	IC224	*03	R217	*F4	R404	D6
C103	*57	C337	H4	IC225	*04	R218	*F5	R405	D7
C104	*58	C338	H5	IC226	*05	R219	*F6	R406	D8
C105	*59	C339	H5	IC227	*06	R220	*F7	R407	D9
C106	*60	C340	H4	IC228	*07	R221	*F8	R408	D10
C107	*61	C341	H4	IC229	*08	R222	*F9	R409	D11
C108	*62	C342	H5	IC230	*09	R223	*F10	R410	D12
C109	*63	C343	H4	IC231	*10	R224	*F11	R411	D13
C110	*64	C344	*34	IC232	*11	R225	*F12	R412	D14
C111	*65	C345	*35	IC233	*12	R226	*F13	R413	D15
C112	*66	C346	H4	IC234	*13	R227	*F14	R414	D16
C113	*67	C347	H5	IC235	*14	R228	*F15	R415	D17
C114	*68	C348	A5	IC236	*15	R229	*F16	R416	D18
C115	*69	C349	A4	IC237	*16	R230	*F17	R417	D19
C116	*70	C350	A4	IC238	*17	R231	*F18	R418	D20
C117	*71	C351	A4	IC239	*18	R232	*F19	R419	D21
C118	*72	C352	A4	IC240	*19	R233	*F20	R420	D22
C119	*73	C353	A5	IC241	*20	R234	*F21	R421	D23
C120	*74	C354	A5	IC242	*21	R235	*F22	R422	D24
C121	*75	C355	A3	IC243	*22	R236	*F23	R423	D25
C122	*76	C356	A3	IC244	*23	R237	*F24	R424	D26
C123	*77	C357	A4	IC245	*24	R238	*F25	R425	D27
C124	*78	C358	C4	IC246	*25	R239	*F26	R426	D28
C125	*79	C359	C4	IC247	*26	R240	*F27	R427	D29
C126	*80	C360	C4	IC248	*27	R241	*F28	R428	D30
C127	*81	C361	C4	IC249	*28	R242	*F29	R429	D31
C128	*82	C362	C4	IC250	*29	R243	*F30	R430	D32
C129	*83	C363	C4	IC251	*30	R244	*F31	R431	D33
C130	*84	C364	C4	IC252	*31	R245	*F32	R432	D34
C131	*85	C365	C4	IC253	*32	R246	*F33	R433	D35
C132	*86	C366	C4	IC254	*33	R247	*F34	R434	D36
C133	*87	C367	C4	IC255	*34	R248	*F35	R435	D37
C134	*88	C368	C4	IC256	*35	R249	*F36	R436	D38
C135	*89	C369	C4	IC257	*36	R250	*F37	R437	D39
C136	*90	C370	C4	IC258	*37	R251	*F38	R438	D40
C137	*91	C371	C4	IC259	*38	R252	*F39	R439	D41
C138	*92	C372	C4	IC260	*39	R253	*F40	R440	D42
C139	*93	C373	C4	IC261	*40	R254	*F41	R441	D43
C140	*94	C374	C4	IC262	*41	R255	*F42	R442	D44
C141	*95	C375	C4	IC263	*42	R256	*F43	R443	D45
C142	*96	C376	C4	IC264	*43	R257	*F44	R444	D46
C143	*97	C377	C4	IC265	*44	R258	*F45	R445	D47
C144	*98	C378	C4	IC266	*45	R259	*F46	R446	D48
C145	*99	C379	C4	IC267	*46	R260	*F47	R447	D49
C146	*100	C380	C4	IC268	*47	R261	*F48	R448	D50
C147	*101	C381	C4	IC269	*48	R262	*F49	R449	D51
C148	*102	C382	C4	IC270	*49	R263	*F50	R450	D52
C149	*103	C383	C4	IC271	*50	R264	*F51	R451	D53
C150	*104	C384	C4	IC272	*51	R265	*F52	R452	D54
C151	*105	C385	C4	IC273	*52	R266	*F53	R453	D55
C152	*106	C386	C4	IC274	*53	R267	*F54	R454	D56
C153	*107	C387	C4	IC275	*54	R268	*F55	R455	D57
C154	*108	C388	C4	IC276	*55	R269	*F56	R456	D58
C155	*109	C389	C4	IC277	*56	R270	*F57	R457	D59
C156	*110	C390	C4	IC278	*57	R271	*F58	R458	D60
C157	*111	C391	C4	IC279	*58	R272	*F59	R459	D61
C158	*112	C392	C4	IC280	*59	R273	*F60	R460	D62
C159	*113	C393	C4	IC281	*60	R274	*F61	R461	D63
C160	*114	C394	C4	IC282	*61	R275	*F62	R462	D64
C161	*115	C395	C4	IC283	*62	R276	*F63	R463	D65
C162	*116	C396	C4	IC284	*63	R277	*F64	R464	D66
C163	*117	C397	C4	IC285	*64	R278	*F65	R465	D67
C164	*118	C398	C4	IC286	*65	R279	*F66	R466	D68
C165	*119	C399	C4	IC287	*66	R280	*F67	R467	D69
C166	*120	C400	C4	IC288	*67	R281	*F68	R468	D70
C167	*121	C401	C4	IC289	*68	R282	*F69	R469	D71
C168	*122	C402	C4	IC290	*69	R283	*F70	R470	D72
C169	*123	C403	C4	IC291	*70	R284	*F71	R471	D73
C170	*124	C404	C4	IC292	*71	R285	*F72	R472	D74
C171	*125	C405	C4	IC293	*72	R286	*F73	R473	D75
C172	*126	C406	C4	IC294	*73	R287	*F74	R474	D76
C173	*127	C407	C4	IC295	*74	R288	*F75	R475	D77
C174	*128	C408	C4	IC296	*75	R289	*F76	R476	D78
C175	*129	C409	C4	IC297	*76	R290	*F77	R477	D79
C176	*130	C410	C4	IC298	*77	R291	*F78	R478	D80
C177	*131	C411	C4	IC299	*78	R292	*F79	R479	D81
C178	*132	C412	C4	IC300	*79	R293	*F80	R480	D82
C179	*133	C413	C4	IC301	*80	R294	*F81	R481	D83
C180	*134	C414	C4	IC302	*81	R295	*F82	R482	D84
C181	*135	C415	C4	IC303	*82	R296	*F83	R483	D85
C182	*136	C416	C4	IC304	*83	R297	*F84	R484	D86
C183	*137	C417	C4	IC305	*84	R298	*F85	R485	D87
C184	*138	C418	C4	IC306	*85	R299	*F86	R486	D88
C185	*139	C419	C4	IC307	*86	R300	*F87	R487	D89
C186	*140	C420	C4	IC308	*87	R301	*F88	R488	D90
C187	*141	C421	C4	IC309	*88	R302	*F89	R489	D91
C188	*142	C422	C4	IC310	*89	R303	*F90	R490	D92
C189	*143	C423	C4	IC311	*90	R304	*F91	R491	D93
C190	*144	C424	C4	IC312	*91	R305	*F92	R492	D94
C191	*145	C425	C4	IC313	*92	R306	*F93	R493	D95
C192	*146	C426	C4	IC314	*93	R307	*F94	R494	D96
C193	*147	C427	C4	IC315	*94	R308	*F95	R495	D97
C194	*148	C428	C4	IC316	*95	R309	*F96	R496	D98
C195	*149	C429	C4	IC317	*96	R310	*F97	R497	D99
C196	*150	C430	C4	IC318	*97	R311	*F98	R498	D100
C197	*151	C431	C4	IC319	*98	R312	*F99	R499	D101
C198	*152	C432	C4	IC320	*99	R313	*F100	R500	D102
C199	*153	C433	C4	IC321	*100	R314	*F101	R501	D103
C200	*154	C434	C4	IC322	*101	R315	*F102	R502	D104
C201	*155	C435	C4	IC323	*102	R316	*F103	R503	D105
C202	*156	C436	C4	IC324	*103	R317	*F104	R504	D106
C203	*157	C437	C4	IC325	*104	R318	*F105	R505	D107
C204	*158	C438	C4	IC326	*105	R319	*F106	R506	D108
C205	*159	C439	C4	IC327	*106	R320	*F107	R507	D109
C206	*160	C440	C4	IC328	*107	R321	*F108	R508	D110
C207	*161	C441	C4	IC329	*108	R322	*F109	R509	D111
C208	*162	C442	C4	IC330	*109	R323	*F110	R510	D112
C209	*163	C443	C4	IC331	*110	R324	*F111	R511	D113
C210	*164	C444	C4	IC332	*111	R325	*F112	R512	D114
C211	*165	C445	C4	IC333	*112	R326	*F113	R513	D115
C212	*166	C446	C4	IC334	*113	R327	*F114	R514	D116
C213	*167	C447	C4	IC335	*114	R328	*F115	R515	D117
C214	*168	C448	C4	IC336	*115	R329	*F116	R516	D118
C215	*169	C449	C4	IC337	*116	R330	*F117	R517	D119
C216	*170	C450	C4	IC338	*117	R331	*F118	R518	D120
C217	*171	C451	C4	IC339	*118	R332	*F119	R519	D121
C218	*172	C452	C4	IC340	*119	R333	*F120	R520	D122
C219	*173	C453	C4	IC341	*120	R334	*F121	R521	D123
C220	*174	C454	C4	IC342	*121	R335	*F122	R522	D124
C221	*175	C455	C4	IC343	*122	R336	*F123	R523	D125
C222	*176	C456	C4	IC344	*123	R337	*F124	R524	D126
C223	*177	C457	C4	IC345	*124	R338	*F125	R525	D127
C224	*178	C458	C4	IC346	*125	R339	*F126	R526	D128
C225	*179	C459	C4	IC347	*126	R340	*F127	R527	D129
C226	*180	C460	C4	IC348	*127	R341	*F128	R528	D130
C227	*181	C461	C4	IC349	*128	R342	*F129	R529	D131
C228	*182	C462	C4	IC350	*129	R343	*F130	R530	D132
C229	*183	C463	C4	IC351	*130	R344	*F131	R531	D133
C230	*184	C464	C4	IC352	*131	R345	*F132	R532	D134
C231	*185	C465	C4	IC353	*132	R346	*F133	R533	D135
C232	*186	C466	C4	IC354	*133	R347	*F134	R534	D136
C233	*187	C467	C4	IC355	*134	R348	*F135	R535	D137
C234	*188	C468	C4	IC356	*135	R349	*F136	R536	D138
C235	*189	C469	C4	IC357	*136	R350	*F137	R537	D139
C236	*190	C470	C4	IC358	*137	R351	*F138	R538	D140
C237	*191	C471	C4	IC359	*138	R352	*F139	R539	D141
C238	*192	C472	C4	IC360	*139	R353	*F140	R540	D142
C239	*193	C473	C4	IC361	*140	R354	*F141	R541	D143
C240	*194	C474	C4	IC362	*141	R355	*F142	R542	D144
C241	*195	C475	C4	IC363	*142	R356	*F143	R543	D145
C242	*196	C476	C4	IC364	*143	R357	*F144	R544	D146
C243	*197	C477	C4	IC365	*144	R358	*F145	R545	D147
C244	*198	C478	C4	IC366	*145	R359	*F146	R546	D148
C245	*199	C479	C4	IC367	*146	R360	*F147	R547	D149
C246	*200	C480	C4	IC368	*147	R361	*F148	R548	D150
C247	*201	C481	C4	IC369	*148	R362	*F149	R549	D151
C248	*202	C482							



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